# Medicare Hospital

# INFORMATION

# Report

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# MEDICARE HOSPITAL INFORMATION

## 1988 • 1989 • 1990

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Volume 41

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## PUERTO RICO

## VIRGIN ISLANDS

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| VOL | STATE | VOL | STATE |
|---|---|---|---|
| 1 | ALABAMA | 28 | MONTANA |
| 2 | ALASKA | 29 | NEBRASKA |
| 3 | ARIZONA | 30 | NEVADA |
| 4 | ARKANSAS | 31 | NEW HAMPSHIRE |
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# FOREWORD

The mission of the Health Care Financing Administration (HCFA) is to promote the timely delivery of appropriate, quality health care to the nation's aged, disabled, and poor. The agency must also ensure that beneficiaries are aware of the services for which they are eligible, that those services are accessible, and that agency policies and actions promote efficiency and quality within the total health care delivery system.

To that end, the annual release of the Medicare Hospital Information report is a key element in our continuing efforts to improve the effectiveness of medical practice and the quality of care provided to Medicare beneficiaries. It is also an important step in helping beneficiaries make more informed health care decisions.

**The information in this release is not intended as a direct measure of quality of care.** It is best used as a "screening tool"—that is, to identify potential problems for further review and, in consultation with medical staff, to evaluate a hospital's strengths and weaknesses. Thus, we believe that consumers can use this information to ask questions of their physicians, rather than reach judgments about the quality of care in a particular hospital. We also expect this information to be used by hospital administrators, physicians, peer review organizations, State survey and certification agencies, and researchers.

This publication presents information to answer the question "What is the actual mortality rate within a certain period of time for each hospital compared to the rate that would have been predicted, given what we know about the characteristics of the patients admitted?" Our basic approach to analyzing hospital mortality information has remained unchanged for the past five years; however, since the last publication of mortality information in May 1991, we have made some significant changes both in our methodology and in the way we display the results of our analysis. The four principal changes in the 1992 report are:

- A graphic presentation of the predicted and observed mortality rates for most hospitals for "All Causes" for Federal fiscal years 1988-1990 at 30, 90, and 180 days;
- The addition of information on certain variables that we use in computing the predicted mortality rates for each hospital;
- The addition of information on the geographic origin of each hospital's patients; and

- A comparison of the average length of stay in each hospital with the average for the State and Nation.

These refinements should make this information an even more valuable educational tool to help improve the quality of care in hospitals. The changes were reviewed by a panel of outside experts. The methodology used to calculate the observed mortality rate, the predicted mortality rate, and the standard deviation are briefly described in the Technical Information section of the Introduction to this volume and in more detail in the Technical Supplement (Volume 55).

We acknowledge the assistance we have received from the American Hospital Association—not only for providing the information detailing selected hospital characteristics, but also for alerting its members to the importance of this information. We are also grateful to the personnel in each hospital who took the time to review the data thoroughly and to provide us with comments and suggestions. As before, we have published individual hospitals' comments in their respective State volumes. Over the years, these communications have helped to improve and refine the information included in this publication.

HCFA is committed to improving the Medicare Hospital Information report. To that end, we are continuing to work with representatives of hospital, consumer, employer and other organizations to make this annual report as useful as possible for all consumers.

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# INTRODUCTION

The Medicare Hospital Information report contains information on acute care hospitals that treated Medicare patients discharged in Federal fiscal year (FY) 1990 (October 1, 1989—September 30, 1990).

This year's publication set consists of 54 State volumes and a Technical Supplement (Volume 55). There is one volume per State, except that California and Texas have two volumes each, Hawaii is combined with American Samoa and Guam, and Puerto Rico and the Virgin Islands are combined together in one volume.

Each hospital's two summary data pages are arranged alphabetically by hospital name in each State volume. These data pages consist of:

- The hospital's FY 1990 Medicare hospital mortality rates;
- A graphic presentation of the predicted and observed mortality rates for **most** hospitals for "All Causes" for FYs 1988—1990 at 30, 90, and 180 days;
- The FY 1990 values for selected explanatory factors used to predict the mortality rates;
- Origins and lengths of stays of Medicare admissions; and
- Hospital characteristics, such as the number of beds and other characteristics, which we obtained from data contained in the American Hospital Association's (AHA) 1990 Annual Survey of Hospitals files or, when such information was not available from the AHA file, the Health Care Financing Administration's (HCFA) Online Survey, Certification and Reporting System (OSCAR) file.

> ***Please note that the information regarding origins and lengths of stays and hospital characteristics are presented strictly for information purposes only. They were not used to calculate the hospital's predicted mortality rates.***

Toward the end of each volume, we include both State and national mortality rates developed by our analysis, as well as the comments we received from individual hospitals.

## Description Of Mortality Information

The mortality rates at a given hospital may reflect, among other factors, the age, sex, diagnoses, and severity of illness of patients admitted to that hospital, as well as the quality of care they received. Factors affecting health and the probability of death vary among the patient populations served by individual hospitals. Consequently, the mortality rates in different patient populations vary considerably.

These latest analyses of the mortality rates associated with Medicare hospitalizations are similar to those carried out in the four prior years. Only one hospitalization for every patient was used. As in last year's analysis, when a patient had multiple hospitalizations during the fiscal year, one stay was selected at random to be analyzed. We believe that the use of the randomly selected admission provides a better representation of a typical hospital admission and permits us to calculate mortality rates more nearly like those the hospital itself would calculate for its patients.

Although we publish data only on deaths which occur within 180 days of admission to the hospital, for purposes of analysis our methodology actually considers deaths which occur any time within 365 days of admission (with the exception that no date of death later than April 1, 1991 is used). This is part of the formula which assesses the long-term risk of mortality. With this approach, information about the early and later results of the hospitalization is provided. This is important because diseases evolve with different time courses, and treatments may have different short- and long-term effects. The choice of at least 180 days allows substantial followup consistent with timely reporting of HCFA data.

We again analyzed the data on a fiscal year, rather than on a calendar year, basis because it allows us to report on recent hospitalizations. Also, new Medicare rules are often instituted on a fiscal year basis.

For each hospital, mortality rates are presented for overall Medicare patient mortality and for eight medical conditions and nine procedures. The information consists of the number of Medicare patients; the observed or actual mortality rate (OBS); the predicted mortality rate (PRED), given the mix of patients; and a standard deviation (SD), a measure of the uncertainty of the predicted rate.

The following information will be helpful when reviewing specific information for any given hospital.

*Number Of Cases*

This is the number of individual Medicare beneficiaries whose discharge in a fiscal year from the short-term, acute care hospital listed was selected for analysis. The total number of cases randomly selected for each hospital is presented under the category "All Causes." The eight medical condition and nine surgical procedure categories are subgroupings drawn from the "All Causes" selection. Although a particular patient may appear in only one of the eight medical condition categories, that same patient may also appear in one or more of the nine surgical procedure categories. Similarly, a patient may appear in one or more of the nine surgical procedure categories, even though he or she was not included in any of the eight medical condition categories.

The categories chosen for display represent HCFA's interpretation of the categories judged to be important by various outside advisors including the Institute of Medicine. The listed condition and procedure categories do not cover the reason for admission of all the hospitalized Medicare patients in this study. (The ICD-9-CM codes included in each condition and procedure category appear in Table 1 following this Introduction section.)

These conditions and procedures represent the causes for the hospital admission and/or surgical episodes during that stay; they do not necessarily represent the cause of death. HCFA does not have access to cause of death information.

*Observed Mortality Rate (OBS)*

The observed mortality rate for each category is the percentage of each acute care hospital's selected Medicare patients who died within 30, 90, or 180 days of the selected admission. This rate does **not** represent the percentage whose death was caused by a particular condition or procedure.

The percentage is rounded to the nearest one-tenth of one percent. Both inhospital deaths and deaths occurring after discharge but within 30, 90, or 180 days of admission are included. For example, if a hospital had 1,000 patients included in the "All Causes" category and 124 of these patients died within 30 days of the selected admission, the 30-day observed mortality rate would be 12.4 percent; if an additional 17 patients died more than 30 but less than 91 days after admission, the 90-day observed mortality rate would be 14.1 percent; and if an additional 13 patients died more than 90 but less than 181 days after admission, the 180-day observed mortality rate would be 15.4 percent.

It is important to note that the observed mortality rate is cumulative; e.g., the 90-day observed mortality rate includes all deaths which occur within 30 days of admission, as well as those occurring more than 30 and less than 91 days after admission.

*Predicted Mortality Rate (PRED)*

The predicted mortality rate for each hospital's patients is derived in part by determining, based on national experience, the contribution to the probability of dying associated with various patient characteristics such as:

- Principal diagnosis (grouped into 23 analytical risk categories),
- Age,
- Sex,
- Previous hospital admissions within the prior six months,
- Admission source (e.g., physician reference, skilled nursing facility reference),
- Admission type (e.g., elective or emergency), and
- The presence of up to seven comorbid conditions—cancer, chronic cardiovascular disease, chronic renal disease, chronic liver disease, chronic pulmonary disease, cerebrovascular degeneration, and chronic diabetes. A list of the ICD-9-CM codes defining the comorbid conditions is in Table 2 following this Introduction section.

*Standard Deviation (SD)*

The standard deviation is a tool to gauge the extent to which the difference between the observed and predicted mortality rate is meaningful. In general, the greater the difference between the two rates, the greater the probability that the difference represents an actual variation from what would be expected in view of the national experience. The less chance that the difference between the PRED and the OBS can be attributed to statistical variability, the more grounds for possible concern about the institution's performance.

Information on how to use the SD to construct prediction intervals for use in assessing the real difference between the OBS and the PRED is included in the Technical Information section of this Introduction. The precision and interpretability of the estimates are weaker when there are no deaths or 50 or fewer cases in a particular category being analyzed. Thus, for these instances, dashes ("---") are placed in the SD column.

## Observed Mortality Rate And Predicted Range For Medicare Patient Admissions For All Causes

Also in this year's report, we have presented graphs that display the information for most hospitals described above for FYs 1988 and 1989, as well as FY 1990. (In particular, these graphs could not be computed for hospitals that had 50 or fewer cases or no deaths in FYs 1988, 1989, or 1990). In constructing the graphs, we used 2 times the standard deviation to approximate a 95 percent prediction interval. The observed mortality is shown as a dot (•). The predicted mortality is shown at the middle of a range of mortality rates. The bottom of the range is the predicted mortality minus twice the standard deviation, and the top of the range represents the predicted mortality plus twice the standard deviation. The graphs for FY 1988 and FY 1989 are based on new random samples and new computations for this year's report. Thus, the calculations for some hospitals for FY 1988 and FY 1989 may be different from previous releases, because we are including more current data in this year's report.

## FY 1990 Values For Selected Explanatory Factors Used To Predict Mortality Rates

This year's report includes the FY 1990 average at each hospital of many of the explanatory factors used to predict that hospital's mortality rates. This information provides a profile of the patients used in the analysis and should help to identify possible systematic coding errors in the claims data used to calculate the mortality rates. These percentages are derived from the patients included in the sample and should be applied to the total number of cases listed in "All Causes." It is important to note that neither the admission sources/types nor the comorbidities categories are mutually exclusive. For example, a patient could be both "referred by his personal physician" and "admitted for elective procedure." Similarly, a patient could have secondary diagnoses of both cancer and diabetes.

## Information Sources And Notes

We believe that when the mortality rate information is properly understood and applied, it can be very useful; it can also be misleading if it is interpreted incorrectly. The information simply describes one of several possible outcomes at a hospital—postadmission mortality for Medicare beneficiaries.

Mortality information is not necessarily representative of a hospital's total performance in all aspects of patient care. Individual hospitals may have very good reasons for their rates being higher than the rates predicted by the HCFA model. For example, one hospital might have different death rates than another because its patient mix is not fully accounted for by the model.

Accordingly, we offered each hospital the opportunity to review their specific information and to provide comments to HCFA and the public, and we included those comments that were received timely at the end of this volume. Users should read the discussions about the uses and limitations of the mortality information found on page xiii, as well as any comments a hospital may have provided.

### *Hospitals In The Analysis*

The hospitals included in this analysis are participating in Medicare as short-term, acute care facilities—all have a zero in the third position of their Medicare provider number. All other hospitals—those with something other than a zero in the third position of their provider number, such as rehabilitation facilities or psychiatric institutions—were excluded. This year, as in the past two years, we have also excluded hospices.

In some cases, we have included data for hospitals that closed, changed ownership, or changed management either during or subsequent to FY 1990. Our data included for those institutions reflects the situation as it existed at the time the hospitalizations analyzed occurred.

### *Data Sources*

This report is based primarily on Medicare hospital billing information for Federal fiscal years 1988, 1989, and 1990. While the principal source of the data for the analysis was the HCFA-maintained Medicare Provider Analysis and Review (MEDPAR) file, which contains information about each Medicare hospitalization, some of the information about beneficiaries, such as date of death, was obtained from the Social Security Administration. Hospitals submit bills to HCFA's fiscal intermediaries (which handle claims for the inpatient care provided to Medicare beneficiaries) which, in turn, submit this information to HCFA. The file is updated on a quarterly basis. Our analysis was based on information available following the June 1991 update of the MEDPAR file. It is estimated that by that time (nine months after the close of the fiscal year), 98 percent of all Medicare discharges in FY 1990 are included in the file.

### *Possible Limitations Of The Data*

In any large-scale data base, such as the one dealing with Medicare hospitalizations, there will be gaps or inaccuracies. For example, last year some hospitals had not accurately reported the source or type of admission, and thus erroneous information was included in the analysis for those hospitals. However, the fact that the files contain information on about 10 million hospital admissions to nearly 6,000 hospitals for each year provides some assurance that, for purposes of the statistical analysis conducted here, the information that might be

missing or inaccurate is such a small portion of the total that it would have little effect on the results for national estimates. Nevertheless, it may substantially affect an individual hospital if it were the source of the inaccurate information.

While we feel that the information used in this analysis is thorough and complete, there are a few points to keep in mind as you review the mortality information.

The information used is billing data; it is only as good as the information submitted by hospitals as part of the payment process. Although there is always a possibility that coding errors are included, we assume that, given the link to payment, hospitals have an incentive to submit bills accurately and promptly. We do know, however, that some hospitals submitted incomplete or erroneous data.

For example, following last year's public release of the hospital mortality data, several hospitals wrote to HCFA indicating that they had submitted incorrect data. Furthermore, they stated that if they had given us the correct information, their predicted mortality rates would have been higher than those presented in HCFA's report. Therefore, in this year's report we have annotated those hospitals' data pages with a footnote stating: "This hospital says that it submitted inaccurate data to Medicare and claims that its predicted mortality rate should be higher than that presented above." At this point, however, HCFA cannot confirm the validity of those hospitals' claims. The analysis results might very well be different if the data on which they were based were submitted accurately by those hospitals.

In our previous analysis of mortality data, we discovered that some States had zero admissions from a skilled nursing facility. While some of these problems were corrected on the MEDPAR files used for this analysis, at the time this study was initiated we found empirical evidence that some of the files still contained suspect information. The suspect data were identified by noting those months (date of discharge) and fiscal intermediaries for which the type and source of admission fields appeared to be interchanged. Based on our findings, we reversed these fields to at least partially correct the remaining discrepancies. The following list shows the specific instances for which the fields were reversed for this analysis.

TYPE AND SOURCE OF ADMISSION FLIPPED

| FI No. | FI Name | Dates |
|---|---|---|
| 00030 | Arizona Blue Cross | 10/01/86 — 12/31/88 |
| 00080 | Maryland Blue Cross/DC | 06/01/87 — 09/30/87 |
| 00190 | Maryland Blue Cross | 06/22/87 — 12/31/88 |
| 00400 | Texas Blue Cross | 12/07/87 — 12/31/88 |

## How To Use This Information

There are several key points to remember about the use of this information. **First, it is important to understand that the difference between the hospitals' mortality rates and the predicted rates in the tables in this report may not be a direct measure of the quality of care rendered in the hospitals.**

Second, the usefulness of this information depends upon the accuracy with which mortality rates can be predicted. We do not currently have any direct measurement tool with which we can fully adjust for severity of patient illness differences among hospitals. For instance, two hospitals may have very different death rates for patients admitted for stroke, even after we have adjusted for age, sex, and several other factors. This might happen because one hospital's stroke patients may consist of a significant number who are admitted in a coma (and are thus more likely to die), whereas another hospital's patient population may represent a broader spectrum of patients with cerebrovascular problems, or because these two hospitals, in fact, do provide different levels of quality of care. In addition, other factors affecting the probability of death in a particular case (e.g., family status/support, overall health status of the patient, etc.) are not included in the predictive model because information on them is not readily available.

Nevertheless, we believe that the information presented in this publication is an important contribution to the health care community and should be helpful to a wide range of individuals and organizations including consumers, hospital administrators, physicians, PROs, and researchers.

### *Use By Consumers — Some Key Questions*

Consumers should read carefully the explanations of the uses and limitations of the information. Listed below are some questions that we recommend a consumer think about before choosing a hospital. Please keep in mind that this is not a comprehensive list, but it should serve to illustrate the types of questions that are important to consider.

- Why are the hospital's observed mortality rates for "All Causes" consistently and significantly above the predicted rates for FY 1990?

- Why are the hospital's observed mortality rates for the condition for which I need treatment or the procedure I will undergo consistently and significantly above the predicted rates for FY 1990?

- How does this hospital's pattern of mortality compare with that of other hospitals in the State and Nation?

- Is the number of cases too small to present a satisfactory picture of the hospital?

- Does the hospital treat a large number of cases in the category for which I need treatment?

- Does the hospital treat a large number of patients who have several co-existing illnesses or who otherwise are likely to be "sicker" than average?

***Other Users Of This Publication***

Among other users of this publication, we expect that the hospital administrator (in consultation with medical staff) will find the information most useful as a screening tool to evaluate a hospital's strengths and weaknesses. We know that some hospitals and their medical staffs, using established and newly emerging quality assessment techniques, are seeking information that will result in improved health care delivery.

***Outside Assistance In Developing This Publication***

The development and presentation of the Medicare Hospital Information report continues to be an important part of HCFA's responsibilities in the health care community. To make the information as accurate and useful as possible, over the past several years we have discussed the theoretical framework and statistical approach with a number of nationally recognized technical experts in appropriate fields. Based on their recommendations, we believe that the models used in these analyses continue to be reasonable and appropriate.

In the past, we have conducted validation studies of our methodology. In general, these studies have found correlation between poor quality care and hospitals whose observed mortality rates significantly exceed the rates that would have been predicted. However, we have also found that detailed clinical data which more thoroughly characterize the severity of patient's illness, while they do not materially affect results describing the general pattern of mortality, do, in specific instances, alter our assessment of the comparison of the observed to the predicted mortality rates.

The format for presentation, the process for sharing the information with individual hospitals, and the statistical methodology have been discussed at various meetings with leaders of organizations representing Medicare beneficiaries, physicians, and hospitals. Also, we have spent many months reviewing the comments received from the hospitals regarding their patient-specific data for earlier years and our previous mortality information reports. Many suggestions from these sources have been incorporated into this report.

We have carefully investigated comments from individual hospitals on apparent discrepancies or errors generated in previous years. These discrepancies rarely had an effect on a hospital's overall mortality rate. Most of these instances fell into the following two broad categories.

- **Inaccurate Date of Death** — We found that inpatient billing coding errors (e.g., a hospital bill indicating that the patient's status at time of discharge was "expired" when the patient had, in fact, left the hospital alive) created many of these errors. We now have mechanisms in place that allow a continuous update of HCFA's master file, thereby enabling us to make corrections.

- **Discrepant Case Counts** — Our analysis counts only one acute care discharge in a fiscal year; normally, hospitals count each discharge. Thus, a patient admitted three times in a year would count three times for the hospital, but only once for the purpose of analyzing Medicare hospital mortality data presented in this report.

***We believe it is important for consumers of health care to have access to as much information about hospitals as possible when making health care choices. Along with hospital characteristics information, we have added this year information about the origin and length of stay of Medicare admissions. This information is presented for comparative purposes only and was not used in calculating a hospital's predicted mortality rates. These data were not part of the analyses, and any errors or discrepancies in them do not affect the predicted mortality rates.***

## ORIGIN OF MEDICARE ADMISSIONS

Data on the geographic origin of each hospital's patients are presented in this year's report. We obtained from the Health Insurance Master file the State and county of residence for each Medicare beneficiary discharged from a Medicare-certified, acute care hospital during FY 1990. We then compared that information with the location of the hospital to determine the percentage of all discharges where the patient lived within the same city/county as the hospital location, within the State where the hospital is located, or outside the State. The percentages are derived by dividing the number of discharges of beneficiaries in a geographic category by the total number of Medicare discharges from the hospital. Please note that these are percentages of total Medicare discharges, not of the mortality sample alone.

## MEDICARE AVERAGE LENGTH OF STAY

We obtained from the MEDPAR file the total days of care—both Medicare covered and noncovered—and divided that total by the number of discharges from each hospital. Total, rather than covered, days were used because, under the Prospective Payment System (PPS), if a Medicare patient has at least one day of hospital coverage available to him in the current spell of illness, the hospital will be paid the full diagnosis related group (DRG) amount plus any approved outlier amount, regardless of the number of days actually used.

Example: Hospital A had 2,513 Medicare discharges with a total of 24,379 days.

Calculation: $\frac{24,379}{2,513} = 9.7$ days

The Medicare average length of stay is 9.7 days.

## HOSPITAL CHARACTERISTICS

As noted previously, we have again included information on selected hospital characteristics such as the number of beds, occupancy rate, ownership, staffing, and specialty services. This information was obtained from the American Hospital Association's (AHA) 1990 Annual Survey of Hospitals, with the exception of the case mix index (CMI), which was derived from HCFA billing data. This file consists of information voluntarily reported by hospitals to the AHA. In instances where AHA data were unavailable, for example for hospitals that did not respond to the AHA survey, we derived the information from HCFA's Online Survey, Certification and Reporting system (OSCAR). The hospital characteristics and the specific special services listed were selected with the concurrence of the AHA as being those most meaningful to the Medicare population. Information on these specific data elements follows.

### *AHA Definitions (except for CMI)*

**Survey and Year** — AHA 1990. Source is the American Hospital Association's 1990 Annual Survey of Hospital files.

### Profile

***Total beds (#)*** — Number of beds (including subacute beds), cribs, and pediatric and neonatal bassinets regularly maintained (set up, staffed, and ready for use) for inpatients as of the close of the reporting period; does not include bassinets for normal newborn infants.

***Occupancy rate (percent)*** — Ratio of average daily census to the average number of beds (statistical beds) maintained during the 12-month reporting period. (NOTE: The number of these "statistical beds" may differ from the bed count at the close of the reporting period.)

***Ownership/control*** — State government, local government, district/authority, church, private nonprofit, private for profit, or Federal Government.

***Medicare discharges*** — The total number of inpatient discharges for Medicare patients for those hospitals selected for the mortality calculations, including all discharges for persons with more than one hospitalization during the year. (The mortality data include only one randomly selected discharge for each hospitalized enrollee. Therefore, this figure may reflect more discharges than the actual number of cases randomly selected for the mortality study.)

***Case mix index (CMI)*** — A measure of the overall complexity of the Medicare cases treated by a given hospital compared to the complexity of the national average case mix. The CMI represents the relative costliness of each hospital's mix of cases compared to the national average mix of cases. A CMI of greater than one means that a hospital treats more complex cases than average. A CMI of less than one means that a hospital treats less complex cases than average. The CMI for each hospital is calculated on an annual basis. In this report, the CMI presented for each hospital is calculated based on its discharges in FY 1990.

A hospital's CMI is calculated by multiplying the number of cases in each DRG by the relative weight of that DRG, summing the products, and dividing the sum by the total number of cases for the year. For calculating the FY 1990 CMI, use the DRG relative weights published in the *Federal Register*, Volume 54, Number 169, pages 36468 ff., dated September 1, 1989.

## Staffing (all AHA counts are as of 9/30/90)

***Total number of physicians*** — Total active and associate medical staff.

***Percent of physicians who are board-certified specialists*** — Physicians who have passed an examination given by a medical specialty board and have been certified by that board as a specialist.

***Medical residents/interns*** — Full-time equivalent (FTE) medical residents or interns.

***Registered nurses*** — Full-time equivalent (FTE) registered nurses.

***Licensed practical nurses*** — Full-time equivalent (FTE) licensed practical nurses.

## Specialty Services

***Burn Unit*** — Provides more intensive care to severely burned patients than the usual acute nursing care provided in medical and surgical units. Beds must be set up and staffed in a unit specifically designated for this service.

***Cardiac Intensive Care*** — Provides patient care of a more specialized nature than the usual medical and surgical care, on the basis of physicians' orders and approved nursing care plans. The unit is staffed with specially trained nursing personnel, and contains monitoring and specialized support or treatment equipment for patients who, because of heart seizure,

open-heart surgery, or other life-threatening conditions, require intensified, comprehensive observation and care. May include myocardial infarction, pulmonary care, and heart transplant units. Beds must be set up and staffed in a unit(s) specifically designated for this service.

***Comprehensive Geriatric*** — Provides diagnostic and evaluation services that determine elderly patients' long-term care needs. It includes the assessment of medical conditions, functional activities, and mental and emotional conditions, and incorporates these into a treatment plan which includes family and financial concerns as well as medical needs.

***Hospice Care*** — A program providing primarily medical relief of pain and support services to terminally ill patients and assistance to their families in adjusting to the patients' illness and death.

***Medical/Surgical Intensive Care*** — Provides nursing care to adult and/or pediatric patients of a more intensive nature than the usual medical, surgical, pediatric, and/or psychiatric care on the basis of physicians' orders and approved nursing care plans. Included are medical-surgical, pediatric, and psychiatric (isolation) units. These units are staffed with specially trained nursing personnel, and contain monitoring and specialized support equipment for patients who, because of shock, trauma, or life-threatening conditions, require intensified, comprehensive observation and care. These units may also include cardiac care when such services are not approved in a distinct cardiac care unit. This category is called "intensive care unit" in OSCAR.

***Organ/Tissue Transplant*** — The hospital has the necessary staff and equipment to perform the surgical removal of a viable human organ or tissue from a donor, either living or deceased, and the surgical grafting of the organ/tissue to a suitably evaluated and prepared patient.

***Other Intensive Care*** — Provides nursing care to adult and/or pediatric patients with a specialized disease or condition of a more intensive nature than the usual medical, surgical, pediatric, and/or psychiatric care on the basis of physicians' orders and approved nursing care plans. Examples reported include oncology or spinal cord injuries. These units are staffed with specially trained nursing personnel and contain monitoring and specialized support equipment appropriate for the patients' specialized conditions.

***Trauma Center*** — Provides emergency and specialized intensive care to critically injured patients.

### Other Specialty/Hospital-Based Services

***Alcohol/Drug*** — Hospital services for the medical care and/or rehabilitative treatment of outpatients whose primary diagnosis is alcoholism or other chemical dependency.

***Rehabilitation*** — A unit having designated beds and providing a comprehensive array of multidisciplinary medical rehabilitation services.

***Psychiatric*** — Care provided to emotionally disturbed, chronically mentally ill, mentally disordered, or other mentally incompetent patients on the basis of physicians' orders and approved nursing care plans. Beds must be set up and staffed in units specifically designated for this service.

***Medicare Swing Beds*** — The hospital is certified by Medicare to provide "swing bed" services; that is, some acute care beds can be used for skilled nursing facility type care in the hospital for Medicare purposes.

## *OSCAR Definitions (except for CMI)*

**Survey and Year** — HCFA, most recent year. Data were derived from the Online Survey, Certification and Reporting System (OSCAR).

### Profile

***Total beds (#)*** — Total number of operational beds eligible for Medicare payment.

***Ownership/control*** — Church; private, nonprofit; other nonprofit; proprietary; Federal Government; State government; local government; and hospital district or authority.

***Case mix index (CMI)*** — See definition shown in AHA "Profile" section.

### Staffing

***Medical residents/interns*** — Full-time equivalent (FTE) medical residents or interns.

***Registered nurses*** — Full-time equivalent (FTE) registered nurses.

***Licensed practical nurses*** — Full-time equivalent (FTE) licensed practical nurses.

## Specialty Services

***NOTE:*** There are no specific definitions of specialty services in OSCAR. Characteristics are self-reported by each hospital at initial Medicare certification and recertification, and are generally understood to parallel the explicit AHA definitions (above). The AHA categories "comprehensive geriatric" and "other intensive care" are not available in OSCAR. However, they may be included in the OSCAR category of other specialty services (not shown in table).

***Coronary Care*** — See definition shown in AHA "Specialty Services" section.

***Intensive Care Unit*** — See definition shown in AHA "Specialty Services" section. These units may also include other intensive care units in OSCAR reporting.

***Organ Transplant*** — See definition shown in AHA "Organ/Tissue Transplant" section. May include tissue transplants because there is not a separate field in OSCAR for these services.

# TECHNICAL INFORMATION

## Data Sources

The data analyzed in this report are obtained from the Medicare Provider Analysis and Review (MEDPAR) file for the fiscal years 1987-1990, which contains information on the hospital stays of Medicare beneficiaries. The principal sources of data for this file are the bills (known as HCFA-1450 or UB-82) submitted by the hospitals to HCFA through fiscal intermediaries. The MEDPAR file also contains data about the beneficiaries, such as age, sex, and date of death, which are obtained from the Social Security Administration, the Railroad Retirement Board, or the Office of Personnel Management.

Hospital stays with discharges in fiscal years 1988, 1989, and 1990 were used in these analyses. Hospital stays in 1987 were used only to characterize the prior admissions of the patients in the 1987 cohort. Only acute care hospital stays in short-term (general and specialty) hospitals were selected. These hospitals have a "0" in the third position of their Medicare provider number. Hospital stays in institutions (designated by a "9" in the fourth position of the provider number) and hospital stays in psychiatric units, rehabilitation units, swing-beds and alcohol/drug units (with "special unit codes" of S, T, U and V, respectively, in the third position) were excluded.

## The Mortality Model

For each beneficiary in each year one hospitalization was selected at random. Choosing a specific hospitalization is necessary to avoid multiple counting of the same death for that year. Selecting a random hospitalization instead of the first or last in the year produces mortality rates that are more representative of the rates that a hospital might calculate for its patients. Also, the mortality rates based on this random selection process reflect an intermediate position between the rates produced by the alternatives.

The selected hospital stays were analyzed separately by analytical category. The analytical categories were created by grouping ICD-9-CM diagnosis codes that had similar mortality patterns. The procedures for creating the analytical categories and the groups of ICD-9-CM diagnosis codes that defined them are detailed in the Technical Supplement.

The mortality experience of the patients was evaluated as a function of time within 365 days of the admission. The factors included in the mortality model used to evaluate each patient's probabilities of death are given in Table 3. They consist of demographic characteristics (age and sex), major comorbidities (chronic diseases likely to have been present at admission and believed to

complicate management and increase the likelihood of an adverse outcome), prior admissions (grouped into five risk or severity levels) within the 6 months preceding the admission evaluated, admission type (emergent, elective, etc.), and admission source (referral from the physician's office, the nursing facility, etc.). The specific reason for the admission (the principal diagnosis) and the performance of selected surgical procedures were additional factors used in the estimation of the predicted probability of death (see below).

The observed mortality rate for a hospital was calculated by means of the lifetable method ("The LIFETEST Procedure," Chapter 22, SAS User's Guide: Statistics, Version 5 Edition, pages 529-557).

## ANALYTIC TECHNIQUES

A time-to-event or survival model with explanatory or concomitant variables was used to ascertain the influence of the patient characteristics listed above on the probability of death. A feature of such a model is allowance for "right censored" observations. Generally, these are events or outcomes which would have occurred but for some interference that prevents further observation. In the present analysis, "right censoring" occurs when a patient is withdrawn alive from the study April 1, 1991 or at the end of the followup period of 365 days.

The survival function, S(t), is one of several equivalent ways of expressing the model. Another form uses the cumulative distribution function or the mortality function

$$F(t) = 1 - S(t).$$

Another useful formulation of these models is the hazard function, h(t), also known as the force of mortality or risk function. The hazard is the rate of decrease in the number of survivors relative to the number of survivors at a specific time. Mathematically, the hazard function is

$$h(t) = -\frac{1}{S(t)}\frac{dS(t)}{dt} = -\frac{d\ln(S(t))}{dt}.$$

The probability density function, f(t), commonly used in statistical texts can be expressed as follows:

$$f(t) = \frac{dF(t)}{dt} = h(t)S(t).$$

The area under the survival curve is the expected value for t. In some cases, the area under the survival curve is restricted to an interval $0\text{-}t_l$ where $t_l$ might be one year, for example.

The specific time-to-event or survival model used in the present analysis is Bailey's modification of the Makeham model. The survival function for the Bailey-Makeham model is

$$S(t) = \exp\left\{-\delta t - \left(\frac{\alpha}{\gamma}\right)(1 - \exp(-\gamma t))\right\}$$

where

$$\alpha = \exp(\alpha_0+\alpha_1 x_1+\ldots+\alpha_i x_i+\ldots+\alpha_k x_k)$$
$$\gamma = \exp(\gamma_0+\gamma_1 x_1+\ldots+\gamma_i x_i+\ldots+\gamma_k x_k)$$
$$\delta = \exp(\delta_0+\delta_1 x_1+\ldots+\delta_i x_i+\ldots+\delta_k x_k)$$

are the expressions for each of the structural parameters $\alpha$, $\gamma$, and $\delta$ in terms of the k concomitant variables $x_i$ and their associated component parameters $\alpha_i$, $\gamma_i$, and $\delta_i$ for i=1, 2,..., k and three intercepts or component parameters $\alpha_0$, $\gamma_0$, and $\delta_0$. The structural parameter $\delta$ is the long-term risk which is approached as $t\rightarrow\infty$. The structural parameter $\alpha$ is the initial excess risk which decays with rate constant $\gamma$.

For the survival function given above, the risk or hazard function has an especially tractable form of an exponential decay which approaches a long-term risk, $\delta$. The hazard function corresponding to the survival function above is

$$h(t) = \alpha\exp(-\gamma t) + \delta\ .$$

The estimation of the component parameters was carried out in a series of steps in which those covariates which had estimable and statistically significant ($p<0.05$) influences of the probability of death were identified for inclusion in the model. As the model for each of the 23 risk categories was estimated separately, different lists of covariates were used for the final core models.

This first step was followed by the estimation of the additional contribution of specific principal diagnoses in each risk category. In these analyses, the effects of the patient characteristics included in the core models were corrected for. Only those principal diagnoses were retained which were estimable and had more than 900 cases (more than 300 for codes identified by year). Similarly, after adjustment for the effects of both the variables in the core model and the principal diagnoses, correction terms were calculated to estimate the additional information about the probability of death associated with the categorization of the patients into the clinical groups used for the presentation of the data in the mortality tables (see below). These correction terms were negligible for the medical categories but substantial for the surgical categories.

Once the component parameters or regression coefficients $\alpha_i$, $\gamma_i$, and $\delta_i$ have been estimated, the predicted probability of patient death at any specified time after admission, 1-S(t), may be calculated for all individuals. To obtain the predicted mortality rate up to a given time for a hospital, it is then only necessary to average over the predicted probabilities of death of its patients to that time.

The analytical categories are useful for grouping the patients into relatively risk-homogeneous strata for the regressions. However, to gain insights into patterns of practice at hospitals, the data are presented for patients grouped into clinically meaningful medical and surgical categories. The 17 clinical categories used in the mortality tables and defined in Table 1 were identified by the Institute of Medicine as being of particular medical and epidemiologic interest.

## Estimation of the Standard Deviation for Predicted Mortality

The standard deviation of the predicted mortality rate is used to assess how statistically different the observed mortality rate is from the rate predicted by the national experience with like patients. The standard deviation depends, in fact, on the variance of the residual or the difference between the observed, P, and predicted, $\hat{\Theta}$, mortality rates.

The residual has four components $V_1$, $V_2$, $V_3$, and $V_4$ where $V_1$ is the variance of the estimate of the predicted probability of death. This computationally intensive term was negligible for nearly all cases, compared to other components of variance. Consequently, this term was not included in the present analysis.

$V_2$ is the binomial variance for n patients

$$V_2 = \frac{\hat{\Theta}\left(1 - \hat{\Theta}\right)}{n}.$$

$V_3$ is the variation among hospitals not explained by the mortality regression models containing the patient characteristics described above.

$$V_3 = \widehat{\mathrm{Var}(\Theta)} = \left(1 - \frac{1}{n}\right) \widehat{M_2(\Theta)}$$

where

$$\widehat{M_2(\Theta)} = \left\{ \left( \begin{array}{c} \text{Predicted mortality} \\ \text{on basis of} \\ \text{patient characteristics and} \\ \text{adjustment for hospital effects} \end{array} \right) - \left( \begin{array}{c} \text{Predicted mortality} \\ \text{on basis of} \\ \text{patient characteristics,} \\ \text{but omitting the hospital specific effects} \end{array} \right) \right\}^2 \left( \frac{1}{z_p^2} \right)$$

The quantity $z_p$ corresponds to the statistical significance (p-value) of the hospital-specific effect.

$V_4$ is the variation not explained by the mortality regression models which each include, in addition, an indicator variable for the hospital:

$$V_4 = \left\{ \left( \text{Observed mortality} \right) - \left( \begin{array}{c} \text{Predicted mortality} \\ \text{on basis of} \\ \text{patient characteristics, and} \\ \text{adjustment for the hospital specific effects} \end{array} \right) \right\}^2$$

(The regression coefficients of the indicator variable for the hospital are a measure of the influence on the probability of patient death of factors not otherwise specified in the model. These factors include severity of illness not adequately reported on by the patient characteristics deduced from the claims data and the hospital's pattern of practice; i.e., performance.)

The standard deviation given in the mortality tables is just

$$SD = \sqrt{V_2 + V_3 + V_4}.$$

## STANDARDIZED MORTALITY RATIO (SMR)

Another method of evaluating a hospital's performance—the Standardized Mortality Ratio (SMR)—is obtained by dividing the observed mortality rate by the predicted mortality rate. An SMR of one means the observed and predicted mortality are equal. A ratio greater than one means the observed mortality exceeds the predicted. A ratio less than one means the observed mortality is less than expected. The more extreme the ratio (significantly greater than one indicating unusually high mortality and significantly less than one indicating unusually low mortality), the greater the attention which should be paid to the results of this mortality report.

For each of the conditions and procedures, selected percentiles for the observed distribution of the SMR are displayed in Table 4. The selected percentiles provide benchmarks for comparison. For example, for a hospital

with 300 cases in the "All Causes" category, with observed mortality of 12.2 percent and predicted probability of 10.0 percent at 30 days, the standardized mortality ratio is

SMR = 12.2/10.0 = 1.22.

Note that an SMR of one means the observed and predicted mortality are equal, while a ratio greater than one means the observed mortality exceeds the predicted, and a ratio less than one means the observed mortality is less than expected. There will be greater interest in the more extreme ratios, either greater than one — excessively high mortality — or less than one — extremely low mortality.

From Table 4 for FY 1990, we find that the ratio is just below the 75th percentile of 1.23. Hence, slightly under 75 percent of the hospitals have an SMR less than that found at this hospital.

However, for a hospital with 900 cases in the "All Causes" category, with observed mortality of 19.3 percent and predicted probability of 10.0 percent at 30 days, the standardized mortality ratio is

SMR = 19.3/10.0 = 1.93.

Since the SMR of 1.93 is greater than the 97.5 percentile of 1.35 (Table 4 for 750 or more cases), there is cause for concern. To further assess this, we examine the displayed data in terms of the measure of uncertainty, the standard deviation.

## Measures of Uncertainty

In principle, to use the standard normal approximations to determine prediction intervals, an adjustment must be applied for the skewness and kurtosis inherent in a mortality rate when the rate is considerably less than 50 percent and the number of cases is small. Table 5 presents the multiplicative factors, based on the binomial distribution, for the standard deviation needed to construct prediction intervals for the mortality rates at confidence levels of 75, 95 and 99 percent. Because of the approximations involved in the estimation of the skewness and kurtosis corrections, their precision decreases as the number of cases and the mortality rate decrease; i.e., as the value of the correction increases. In addition, because of simplifications and approximations in the estimation of the standard deviation, the precision of the multiplicative factors given in Table 5 exceeds the precision of the estimate of the standard deviation. Hence, the following rule-of-thumb represents an adequate approximation to the factors in Table 5 and an adequate guide to the **statistical meaningfulness** of the difference between the observed and the predicted mortality rates.

To illustrate the use of Table 5, consider a hospital with 75 cases and a predicted mortality of 13.0 percent with a standard deviation of 5.0 percent. Overall, for hospitals with patients with characteristics similar to those of this hospital, we would expect the actual or observed mortality rate to lie, 95 percent of the time, either between 13.0 percent and 22.9 percent if the actual is larger than the predicted, or between 3.3 percent and 13.0 percent if the actual is less than the predicted. That is because 22.9 percent = 13.0 percent + 1.98 x 5.0 percent, the factor 1.98 having been read from the section of Table 5 with the heading "95 Percent Prediction Interval" and "Factor for Upper Bound," the row "75" for the number of cases, and, by interpolation, between the "10 percent" and the "20 percent" predicted mortality rate columns. Similarly, 3.3 percent = 13.0 percent - 1.94 x 5.0 percent, the factor -1.94 having been read from the section of Table 5 with the heading "95 Percent Prediction Interval" and "Factor for Lower Bound" and the corresponding row and columns.

Therefore, in comparing the actual and predicted rates, more attention should be given to the hospital whose observed mortality rate lies beyond the bounds calculated for the 99 percent prediction interval than to the hospital whose observed mortality rate lies only beyond the bounds calculated for the 95 percent prediction interval. Likewise, more attention should be given to that hospital than to the hospital whose observed mortality rate lies only beyond the bounds calculated for the 75 percent prediction interval.

For the graphs, the observed mortality and an approximate 95 percent prediction interval are displayed. The prediction interval has bounds at the predicted mortality plus 2 times the standard deviation and at the predicted minus 2 times the standard deviation.

In the mortality rate tables, the observed and predicted mortality rates and the standard deviation as a measure for statistical importance of the difference are displayed for the overall and each of the conditions and procedures.

## How To Obtain Medicare Hospital Information

The publication has been widely distributed to State health organizations and hospital and medical associations. The publication is available to the public for purchase in 55 volumes, with each volume being sold separately through the Government Printing Office (GPO). More detailed information about the purchase of this publication may be obtained by contacting:

Superintendent of Documents
Government Printing Office
Washington, D.C. 20402
Telephone: (202) 783-3238

As in prior years, the information appearing in the Medicare Hospital Information report is available in machine-readable/electronic format (tape and diskette). The Medicare Hospital Information public use file provides the published information as contained in the 55-volume hardcopy publication, except that the AHA's hospital characteristics are not on this file. Hospital characteristics from HCFA files (OSCAR) are provided instead. The files contain additional information which is useful for supplemental analyses: averages by hospital, MSA, and State for each of the variables used in the model, mortality rates for 15, 30, 60, 90 and 180 days, and cross-reference files which relate State, MSA, and ICD-9-CM codes used to a name. These data should allow analysts to assess an individual hospital's performance in comparison to all hospitals in the State or applicable MSA.

Also available to **hospitals** in machine-readable format is their patient-specific data that were used in the report. These data include the patient variables used in the analysis (e.g., the number and severity level of prior hospitalizations considered by the methodology, admission source and type, etc.) and the predicted probability of death at each time interval for each individual included in the study. With these data it is possible for hospitals to better understand their statistics. **Due to confidentiality considerations, requests for patient-specific data must be forwarded on hospital letterhead, must include the institution's Medicare provider number, and must be signed by the hospital administrator.**

For information about obtaining Medicare Hospital Information electronic media data, please contact HCFA's Bureau of Data Management and Strategy at:

Health Care Financing Administration
Bureau of Data Management and Strategy
Office of Statistics and Data Management
3-A-10 Security Office Park Building
6325 Security Boulevard
Baltimore, Maryland 21207
Telephone: (410) 597-5151

# Table 1

# DIAGNOSTIC AND PROCEDURE CATEGORIES

The following lists the ICD-9-CM diagnostic and procedure codes used to classify and group patients for presentation

| CONDITION/PROCEDURE | ICD-9-CM CODES<br>*(D)=Diagnosis code*<br>*(P)=Procedure code* |
|---|---|
| **Heart Disorders/Procedures** | |
| Acute Myocardial Infarction (AMI) | All of 410 (D) (on 10/1/89 exclude 410 with 5th digit of a 2) |
| ***Note:*** *For code 410 a 5th digit was added on October 1, 1989.* | |
| Congestive Heart Failure (CHF) | 398.91, 402.01, 402.11, 402.91, 428.0, 428.1, 428.9 (all D) |
| Angioplasty (ANGPLSTY) | All of 36.0 (P) excluding 36.00, 36.03, 36.04, 36.09 (all P) |
| ***Note:*** *Code 36.0 had a 4th digit added on October 1, 1986. Code 36.0 got digits of 0, 1, 2, 3, and 9, and code 36.04 got some previously coded cases of 39.97. On October 1, 1987, code 36.01 was divided into 36.01 and 36.05, and some cases from 36.02 were put into 36.05.* | |
| Coronary Artery Bypass Graft (CABG) | All of 36.1(P) and not Angioplasty (see above) |
| Pacemaker Insertion, Initial (PACE) | 37.73, 37.74, 37.75, 37.77 (after 10/1/87 use 37.70 through 37.73) (all P) |
| ***Note:*** *Code 37.70 was restructured on October 1, 1987. Previously the code contained both leads and devices. On October 1 these were separated and devices were coded as 37.80 through 37.83, and codes for the leads were changed into various 37.70 codes.* | |

| CONDITION/PROCEDURE | ICD-9-CM CODES<br>*(D)=Diagnosis code*<br>*(P)=Procedure code* |
|---|---|
| **Pulmonary Disorders** | |
| Pneumonia/Influenza (PNU) | All of 480, all of 481, 482.2, 482.3, 482.9, 483, 485, 486, 487.0 (all D) |
| Chronic Obstructive Pulmonary (COPD) | All of 491, all of 492, all of 494, Disease all of 496; and 466.0, 518.82, 518.5, and 786.09 when there is a secondary diagnosis of any 496 (all D) |
| ***Note:*** *Code 518.8 got a 5th digit on October l, 1987. Some cases from 799.1 were put into codes 518.81 and 518.82.* | |
| **Cerebrovascular Disorders/Procedures** | |
| Transient Cerebral Ischemia (TCI) | 433.1, 433.3, 435 (D) and exclude those patients with an endarterectomy at the time of admission—38.12(P) |
| Stroke (STK) | 431, 434 through 434.9, 436 (all D) |
| Carotid Endarterectomy (ENDART) | 38.12 (P) with 433.1 (D); 433.3 (D) or 435(D) as a principal diagnosis |
| **Musculoskeletal Disorders/Procedures** | |
| Fracture of Neck of Femur (FXHIP) | All of 820 (D) |
| Hip Replacement/Revision (HIPREP) | 81.5, 81.6 (exclude 81.69) (all P). On 10/1/89 code 81.51 (P) through 81.53 (P) with same diagnoses. |
| Open Reduction of Fractured Femur (OPRDUX) | 79.35(P) on condition of 820 (D) as principal diagnosis |

| CONDITION/PROCEDURE | ICD-9-CM CODES<br>*(D)=Diagnosis code*<br>*(P)=Procedure code* |
|---|---|
| **Genitourinary Disorders/Procedures** | |
| Prostatectomy (PROS) | 60.2, 60.3 through 60.69 (all P) |
| Hysterectomy (HYS) | 68.3 through 68.7 (P) |
| **Gastrointestinal Disorders/Procedures** | |
| Cholecystectomy (CHOLOTMY) | 51.22 (P) |
| **Sepsis** | |
| Sepsis | 003.1, 020.2, 022.3, 036.2, 036.3, 036.89, 036.9, 038.0, 038.1, 038.2, 038.3, 038.40, 038.41, 038.42, 038.43, 038.44, 038.49, 038.8, 038.9, 054.5 |

# Table 2

## COMORBIDITY CONDITIONS

(all are D codes)

| COMORBIDITY | ICD-9-CM CODES |
|---|---|
| Cancer | 141-160.9, 162-172.9, 174-208.91 |
| Chronic cardiovascular disease | 412-414.9, 426-429.1 |
| Chronic liver disease | 571-572.8 |
| Chronic renal disease | 582-583.9, 585-587, 403.01, 403.11, 403.91, 404.02, 404.03, 404.12, 404.13, 404.92, 404.93 |
| Chronic diabetes | 250.01, 250.1-250.91 |
| Chronic pulmonary disease | 491-493.91, 496 |
| Cerebrovascular degeneration | 290-290.9, 294-299.9 |

# Table 3

# EXPLANATORY VARIABLES FOR THE MORTALITY MODEL

Generally the same variables are used for all diagnostic categories.

**Demographics**

SXFM — An indicator variable: = 1 if Female, 0 otherwise

AGEFM = AGESP if SXFM = 1, 0 otherwise
AGEML = AGESP if SXFM = 0, 0 otherwise

where

$$AGESP = \text{sign}(W-65)\left(\left|\frac{W-65}{65}\right|\right)^{1.44}$$

and

$$W = \left\{ \begin{array}{c} 23 \text{ if } AGE \leq 23 \\ AGE \text{ if } 23 < AGE < 100 \\ 100 \text{ if } 100 \leq AGE \end{array} \right\}$$

| **Comorbidities** | | **ICD-9-CM Codes** |
|---|---|---|
| (Indicator variables = 1 if comorbidity present on current or prior admission with discharge within 6 months prior to current admission, 0 otherwise) | | |
| CCA | Cancer | 141-160.9, 162-172.9, 174-208.91 |
| CCV | Chronic cardiovascular disease | 412-414.9, 426-429.1 |
| CLV | Chronic liver disease | 571-572.8 |
| CRN | Chronic renal disease | 582-583.9, 585-587, 403.01, 403.11, 403.91, 404.02, 404.03, 404.12, 404.13, 404.92, 404.93 |
| CDI | Chronic diabetes | 250.01, 250.1-250.91 |
| COP | Chronic pulmonary disease | 491-493.91, 496 |
| CCE | Cerebrovascular degeneration | 290-290.9, 294-299.9 |

**Co Occurrence of Comorbidities**

| | |
|---|---|
| COP_CCV | 1 if COP = 1 and CCV = 1, 0 otherwise |
| CCA_CCV | 1 if CCA = 1 and CCV = 1, 0 otherwise |
| COP_CCA | 1 if COP = 1 and CCA = 1, 0 otherwise |
| CCE_CCV | 1 if CCE = 1 and CCV = 1, 0 otherwise |
| CRN_CCV | 1 if CRN = 1 and CCV = 1, 0 otherwise |

**Admission Sources and Types**

(Indicator variables = 1 if source or type present, 0 otherwise)

| | |
|---|---|
| PREF | Patient referred by personal or HMO physician |
| TRSNF | Patient transferred from skilled nursing facility |
| ELCT | Patient admitted for elective procedure |
| EMRG | Patient admitted for emergency |

**Co-Occurrence of Admission Source and Type**

PREF_ELEC = 1 if PREF = 1 and ELCT = 1, 0 otherwise

**Previous Hospitalizations**

| | |
|---|---|
| P_RISK1 | Number at 1st risk level with 3 or more set to 3 |
| P_RISK2 | Number at 2nd risk level with 3 or more set to 3 |
| P_RISK3 | Number at 3rd risk level with 3 or more set to 3 |
| P_RISK4 | Number at 4th risk level with 4 or more set to 4 |
| P_RISK5 | Number at 5th risk level with 3 or more set to 3 |
| F(T) | Probability of death from previous admission if discharge within 182 days of current admission, 0 otherwise |

**Time Trend**

| | |
|---|---|
| FLAG89 | 1 if discharge in FY1989, 0 otherwise |
| FLAG90 | 1 if discharge in FY1990, 0 otherwise |
| INYEAR | Difference between current admission date and April 1 of fiscal year of discharge |

TABLE 4
SMR DISTRIBUTION FOR HOSPITALS WITH GREATER THAN 50 CASES
1990 STUDY, FY1990

| CONDITIONS/PROCEDURES | NUMBER OF HOSPITALS | 30 DAYS | | | | | 90 DAYS | | | | | 180 DAYS | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 2.5% | 25% | 50% | 75% | 97.5% | 2.5% | 25% | 50% | 75% | 97.5% | 2.5% | 25% | 50% | 75% | 97.5% |
| OVERALL( < 750 CASES ) | 2645 | 0.45 | 0.88 | 1.04 | 1.23 | 1.72 | 0.56 | 0.90 | 1.03 | 1.17 | 1.54 | 0.61 | 0.90 | 1.02 | 1.15 | 1.46 |
| OVERALL( >= 750 CASES) | 2684 | 0.73 | 0.91 | 0.99 | 1.09 | 1.35 | 0.79 | 0.94 | 1.01 | 1.09 | 1.28 | 0.82 | 0.94 | 1.01 | 1.08 | 1.24 |
| CONDITIONS | | | | | | | | | | | | | | | | |
| AMI | 1405 | 0.54 | 0.80 | 0.95 | 1.11 | 1.42 | 0.62 | 0.86 | 0.99 | 1.14 | 1.44 | 0.63 | 0.86 | 0.99 | 1.13 | 1.39 |
| CHF | 2335 | 0.43 | 0.79 | 0.98 | 1.17 | 1.64 | 0.60 | 0.85 | 0.99 | 1.13 | 1.49 | 0.66 | 0.89 | 1.00 | 1.13 | 1.41 |
| PNEUMONIA/INFLUENZA | 2428 | 0.41 | 0.78 | 0.97 | 1.18 | 1.68 | 0.53 | 0.84 | 1.00 | 1.17 | 1.55 | 0.57 | 0.86 | 1.01 | 1.16 | 1.50 |
| COPD | 435 | 0.00 | 0.63 | 0.97 | 1.34 | 2.06 | 0.30 | 0.78 | 1.02 | 1.26 | 1.74 | 0.40 | 0.82 | 1.01 | 1.24 | 1.69 |
| TRANS. CEREBRAL ISCHEMIA | 404 | 0.00 | 0.00 | 0.83 | 1.34 | 3.20 | 0.00 | 0.48 | 0.85 | 1.31 | 2.27 | 0.21 | 0.60 | 0.90 | 1.21 | 2.05 |
| STROKE | 1789 | 0.53 | 0.79 | 0.95 | 1.13 | 1.56 | 0.61 | 0.84 | 0.98 | 1.13 | 1.47 | 0.65 | 0.87 | 0.99 | 1.12 | 1.42 |
| HIP FRACTURE | 1199 | 0.21 | 0.67 | 0.93 | 1.27 | 2.10 | 0.40 | 0.76 | 0.94 | 1.19 | 1.80 | 0.47 | 0.78 | 0.97 | 1.16 | 1.64 |
| SEPSIS | 254 | 0.51 | 0.79 | 0.96 | 1.12 | 1.50 | 0.65 | 0.86 | 0.99 | 1.13 | 1.47 | 0.69 | 0.89 | 1.01 | 1.15 | 1.44 |
| PROCEDURES | | | | | | | | | | | | | | | | |
| ANGIOPLASTY | 425 | 0.00 | 0.49 | 0.89 | 1.33 | 2.66 | 0.00 | 0.60 | 0.93 | 1.36 | 2.34 | 0.00 | 0.63 | 0.97 | 1.34 | 2.14 |
| CABG | 556 | 0.20 | 0.68 | 1.03 | 1.39 | 2.45 | 0.28 | 0.73 | 1.00 | 1.32 | 2.09 | 0.28 | 0.73 | 1.01 | 1.30 | 2.10 |
| PACEMAKER | 112 | 0.00 | 0.41 | 0.72 | 1.37 | 3.25 | 0.20 | 0.61 | 0.90 | 1.21 | 2.17 | 0.21 | 0.65 | 0.84 | 1.16 | 1.87 |
| CAROTID ENDARTERECTOMY | 73 | 0.00 | 0.00 | 0.85 | 1.33 | 2.90 | 0.00 | 0.14 | 0.74 | 1.28 | 2.43 | 0.00 | 0.42 | 0.86 | 1.38 | 2.86 |
| HIP REPLACEMENT | 763 | 0.00 | 0.53 | 0.94 | 1.44 | 2.77 | 0.19 | 0.67 | 0.96 | 1.31 | 2.12 | 0.26 | 0.71 | 0.94 | 1.26 | 1.91 |
| REDUCT. OF HIP FRACTURE | 276 | 0.00 | 0.56 | 0.86 | 1.22 | 2.05 | 0.31 | 0.68 | 0.92 | 1.19 | 1.76 | 0.38 | 0.77 | 0.96 | 1.12 | 1.58 |
| PROSTATECTOMY | 1576 | 0.00 | 0.00 | 0.73 | 1.57 | 3.56 | 0.00 | 0.49 | 0.91 | 1.40 | 2.63 | 0.00 | 0.57 | 0.92 | 1.29 | 2.21 |
| CHOLECYSTECTOMY | 714 | 0.00 | 0.49 | 0.95 | 1.54 | 2.68 | 0.00 | 0.62 | 0.93 | 1.37 | 2.22 | 0.22 | 0.67 | 0.98 | 1.27 | 1.93 |
| HYSTERECTOMY | 113 | 0.00 | 0.00 | 0.00 | 2.00 | 6.69 | 0.00 | 0.00 | 0.76 | 1.70 | 3.59 | 0.00 | 0.24 | 0.75 | 1.27 | 2.91 |

TABLE 4
SMR DISTRIBUTION FOR HOSPITALS WITH GREATER THAN 50 CASES
1990 STUDY, FY1989

| CONDITIONS/PROCEDURES | NUMBER OF HOSPITALS | 30 DAYS | | | | | 90 DAYS | | | | | 180 DAYS | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 2.5% | 25% | 50% | 75% | 97.5% | 2.5% | 25% | 50% | 75% | 97.5% | 2.5% | 25% | 50% | 75% | 97.5% |
| OVERALL( < 750 CASES ) | 2746 | 0.50 | 0.87 | 1.04 | 1.23 | 1.73 | 0.58 | 0.89 | 1.03 | 1.17 | 1.54 | 0.61 | 0.89 | 1.01 | 1.14 | 1.44 |
| OVERALL( >= 750 CASES) | 2669 | 0.71 | 0.90 | 1.00 | 1.09 | 1.35 | 0.79 | 0.94 | 1.01 | 1.08 | 1.28 | 0.82 | 0.95 | 1.01 | 1.07 | 1.24 |
| CONDITIONS | | | | | | | | | | | | | | | | |
| AMI | 1412 | 0.53 | 0.81 | 0.96 | 1.12 | 1.47 | 0.59 | 0.86 | 1.01 | 1.15 | 1.47 | 0.63 | 0.87 | 1.00 | 1.14 | 1.43 |
| CHF | 2293 | 0.47 | 0.80 | 0.97 | 1.18 | 1.69 | 0.58 | 0.86 | 1.00 | 1.14 | 1.48 | 0.66 | 0.89 | 1.02 | 1.14 | 1.40 |
| PNEUMONIA/INFLUENZA | 2179 | 0.45 | 0.77 | 0.97 | 1.19 | 1.67 | 0.54 | 0.85 | 1.01 | 1.18 | 1.55 | 0.60 | 0.86 | 1.02 | 1.18 | 1.51 |
| COPD | 324 | 0.21 | 0.68 | 0.99 | 1.32 | 2.13 | 0.44 | 0.78 | 1.04 | 1.27 | 1.91 | 0.49 | 0.84 | 1.04 | 1.24 | 1.66 |
| TRANS. CEREBRAL ISCHEMIA | 420 | 0.00 | 0.00 | 0.79 | 1.41 | 3.26 | 0.00 | 0.46 | 0.88 | 1.33 | 2.36 | 0.18 | 0.60 | 0.92 | 1.25 | 1.97 |
| STROKE | 1728 | 0.53 | 0.80 | 0.95 | 1.12 | 1.56 | 0.62 | 0.85 | 0.97 | 1.11 | 1.46 | 0.67 | 0.88 | 0.99 | 1.13 | 1.40 |
| HIP FRACTURE | 1126 | 0.24 | 0.67 | 0.95 | 1.30 | 2.04 | 0.39 | 0.75 | 0.98 | 1.21 | 1.71 | 0.46 | 0.78 | 0.97 | 1.18 | 1.59 |
| SEPSIS | 174 | 0.52 | 0.79 | 0.94 | 1.10 | 1.52 | 0.63 | 0.88 | 1.02 | 1.15 | 1.46 | 0.68 | 0.93 | 1.05 | 1.16 | 1.43 |
| PROCEDURES | | | | | | | | | | | | | | | | |
| ANGIOPLASTY | 370 | 0.00 | 0.46 | 0.84 | 1.35 | 2.55 | 0.00 | 0.55 | 0.88 | 1.33 | 2.52 | 0.00 | 0.61 | 0.94 | 1.32 | 2.44 |
| CABG | 501 | 0.21 | 0.65 | 1.00 | 1.47 | 2.57 | 0.23 | 0.69 | 1.00 | 1.33 | 2.29 | 0.32 | 0.74 | 1.01 | 1.33 | 2.21 |
| PACEMAKER | 91 | 0.00 | 0.52 | 0.74 | 1.12 | 2.31 | 0.00 | 0.56 | 0.83 | 1.15 | 2.14 | 0.20 | 0.68 | 0.81 | 1.16 | 1.87 |
| CAROTID ENDARTERECTOMY | 55 | 0.00 | 0.00 | 0.82 | 1.51 | 5.01 | 0.00 | 0.47 | 0.86 | 1.31 | 4.00 | 0.00 | 0.43 | 0.85 | 1.28 | 3.12 |
| HIP REPLACEMENT | 686 | 0.00 | 0.52 | 0.92 | 1.44 | 2.46 | 0.00 | 0.65 | 0.94 | 1.27 | 1.95 | 0.21 | 0.67 | 0.94 | 1.19 | 1.75 |
| REDUCT. OF HIP FRACTURE | 246 | 0.19 | 0.57 | 0.91 | 1.23 | 1.96 | 0.31 | 0.71 | 0.96 | 1.19 | 1.74 | 0.41 | 0.78 | 0.96 | 1.13 | 1.53 |
| PROSTATECTOMY | 1570 | 0.00 | 0.00 | 0.67 | 1.50 | 3.46 | 0.00 | 0.47 | 0.86 | 1.36 | 2.67 | 0.00 | 0.58 | 0.93 | 1.28 | 2.15 |
| CHOLECYSTECTOMY | 680 | 0.00 | 0.53 | 0.94 | 1.53 | 2.90 | 0.00 | 0.62 | 0.97 | 1.36 | 2.15 | 0.22 | 0.66 | 0.95 | 1.26 | 1.98 |
| HYSTERECTOMY | 101 | 0.00 | 0.00 | 0.00 | 1.80 | 5.44 | 0.00 | 0.00 | 0.78 | 1.60 | 4.21 | 0.00 | 0.00 | 0.91 | 1.38 | 2.99 |

TABLE 4
SMR DISTRIBUTION FOR HOSPITALS WITH GREATER THAN 50 CASES
1990 STUDY, FY1988

| CONDITIONS/PROCEDURES | NUMBER OF HOSPITALS | 30 DAYS | | | | | 90 DAYS | | | | | 180 DAYS | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 2.5% | 25% | 50% | 75% | 97.5% | 2.5% | 25% | 50% | 75% | 97.5% | 2.5% | 25% | 50% | 75% | 97.5% |
| OVERALL( < 750 CASES ) | 2838 | 0.46 | 0.89 | 1.05 | 1.23 | 1.75 | 0.54 | 0.90 | 1.03 | 1.16 | 1.57 | 0.59 | 0.90 | 1.02 | 1.14 | 1.45 |
| OVERALL( >= 750 CASES) | 2693 | 0.73 | 0.90 | 1.00 | 1.10 | 1.35 | 0.79 | 0.94 | 1.01 | 1.09 | 1.27 | 0.82 | 0.95 | 1.01 | 1.08 | 1.24 |
| CONDITIONS | | | | | | | | | | | | | | | | |
| AMI | 1414 | 0.56 | 0.82 | 0.96 | 1.12 | 1.41 | 0.63 | 0.87 | 1.01 | 1.14 | 1.42 | 0.65 | 0.89 | 1.00 | 1.13 | 1.39 |
| CHF | 2246 | 0.45 | 0.79 | 0.97 | 1.18 | 1.61 | 0.60 | 0.86 | 1.00 | 1.14 | 1.43 | 0.68 | 0.90 | 1.02 | 1.13 | 1.37 |
| PNEUMONIA/INFLUENZA | 2069 | 0.44 | 0.79 | 0.97 | 1.17 | 1.68 | 0.57 | 0.85 | 1.01 | 1.17 | 1.59 | 0.61 | 0.87 | 1.01 | 1.16 | 1.53 |
| COPD | 310 | 0.21 | 0.67 | 0.92 | 1.30 | 2.17 | 0.39 | 0.79 | 0.98 | 1.20 | 1.81 | 0.51 | 0.82 | 0.99 | 1.19 | 1.59 |
| TRANS. CEREBRAL ISCHEMIA | 495 | 0.00 | 0.00 | 0.84 | 1.48 | 2.94 | 0.00 | 0.48 | 0.92 | 1.39 | 2.28 | 0.21 | 0.60 | 0.92 | 1.27 | 1.92 |
| STROKE | 1726 | 0.51 | 0.79 | 0.95 | 1.12 | 1.56 | 0.60 | 0.84 | 0.98 | 1.13 | 1.44 | 0.64 | 0.88 | 1.00 | 1.13 | 1.42 |
| HIP FRACTURE | 1119 | 0.24 | 0.65 | 0.96 | 1.27 | 2.07 | 0.40 | 0.78 | 0.98 | 1.21 | 1.77 | 0.47 | 0.80 | 0.98 | 1.17 | 1.64 |
| SEPSIS | 133 | 0.58 | 0.77 | 0.92 | 1.08 | 1.64 | 0.56 | 0.86 | 1.00 | 1.13 | 1.54 | 0.67 | 0.88 | 1.02 | 1.14 | 1.53 |
| PROCEDURES | | | | | | | | | | | | | | | | |
| ANGIOPLASTY | 297 | 0.00 | 0.50 | 0.87 | 1.35 | 2.60 | 0.00 | 0.59 | 0.91 | 1.34 | 2.50 | 0.00 | 0.65 | 0.95 | 1.31 | 2.25 |
| CABG | 478 | 0.21 | 0.68 | 0.98 | 1.39 | 2.40 | 0.32 | 0.73 | 1.00 | 1.36 | 2.12 | 0.38 | 0.75 | 1.01 | 1.31 | 2.04 |
| PACEMAKER | 83 | 0.00 | 0.34 | 0.65 | 1.04 | 1.75 | 0.01 | 0.54 | 0.85 | 1.03 | 1.70 | 0.23 | 0.69 | 0.87 | 1.10 | 1.57 |
| CAROTID ENDARTERECTOMY | 69 | 0.00 | 0.00 | 0.60 | 1.23 | 3.30 | 0.00 | 0.33 | 0.62 | 1.09 | 2.50 | 0.00 | 0.44 | 0.68 | 1.16 | 1.87 |
| HIP REPLACEMENT | 670 | 0.00 | 0.49 | 0.95 | 1.40 | 2.65 | 0.00 | 0.66 | 1.01 | 1.31 | 2.15 | 0.24 | 0.70 | 0.96 | 1.24 | 1.87 |
| REDUCT. OF HIP FRACTURE | 259 | 0.00 | 0.61 | 0.91 | 1.26 | 2.16 | 0.38 | 0.74 | 0.96 | 1.21 | 1.94 | 0.44 | 0.77 | 0.96 | 1.16 | 1.79 |
| PROSTATECTOMY | 1619 | 0.00 | 0.00 | 0.78 | 1.53 | 3.69 | 0.00 | 0.54 | 0.92 | 1.39 | 2.57 | 0.00 | 0.61 | 0.93 | 1.30 | 2.21 |
| CHOLECYSTECTOMY | 642 | 0.00 | 0.50 | 0.96 | 1.44 | 3.04 | 0.00 | 0.61 | 0.96 | 1.36 | 2.26 | 0.25 | 0.66 | 0.96 | 1.27 | 2.01 |
| HYSTERECTOMY | 90 | 0.00 | 0.00 | 0.00 | 1.57 | 5.00 | 0.00 | 0.00 | 0.68 | 1.43 | 2.83 | 0.00 | 0.28 | 0.67 | 1.15 | 2.88 |

## TABLE 5: MULTIPLICATIVE FACTORS FOR THE CALCULATION OF THE BOUNDS FOR PREDICTION INTERVALS

(n is the number of cases at your hospital and p is the predicted mortality rate)

| | 99% Prediction Interval | | | | | 95% Prediction Interval | | | | | 75% Prediction Interval | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Factor for Upper Bound | | | | | Factor for Upper Bound | | | | | Factor for Upper Bound | | | | |
| p<br>n | 1% | 5% | 10% | 20% | 40% | 1% | 5% | 10% | 20% | 40% | 1% | 5% | 10% | 20% | 40% |
| 25 | 2.95 | 2.73 | 2.68 | 2.63 | 2.59 | 2.15 | 2.04 | 2.01 | 1.99 | 1.97 | 1.17 | 1.16 | 1.16 | 1.15 | 1.15 |
| 50 | 2.76 | 2.65 | 2.63 | 2.60 | 2.58 | 2.05 | 2.00 | 1.99 | 1.97 | 1.96 | 1.16 | 1.15 | 1.15 | 1.15 | 1.15 |
| 75 | 2.70 | 2.63 | 2.61 | 2.59 | 2.58 | 2.02 | 1.99 | 1.98 | 1.97 | 1.96 | 1.16 | 1.15 | 1.15 | 1.15 | 1.15 |
| 100 | 2.67 | 2.61 | 2.60 | 2.59 | 2.58 | 2.01 | 1.98 | 1.97 | 1.97 | 1.96 | 1.16 | 1.15 | 1.15 | 1.15 | 1.15 |
| 150 | 2.64 | 2.60 | 2.59 | 2.59 | 2.58 | 1.99 | 1.97 | 1.97 | 1.96 | 1.96 | 1.15 | 1.15 | 1.15 | 1.15 | 1.15 |
| 200 | 2.62 | 2.60 | 2.59 | 2.58 | 2.58 | 1.98 | 1.97 | 1.97 | 1.96 | 1.96 | 1.15 | 1.15 | 1.15 | 1.15 | 1.15 |
| 300 | 2.61 | 2.59 | 2.58 | 2.58 | 2.58 | 1.98 | 1.97 | 1.96 | 1.96 | 1.96 | 1.15 | 1.15 | 1.15 | 1.15 | 1.15 |
| 400 | 2.60 | 2.59 | 2.58 | 2.58 | 2.58 | 1.97 | 1.96 | 1.96 | 1.96 | 1.96 | 1.15 | 1.15 | 1.15 | 1.15 | 1.15 |
| 500 | 2.59 | 2.58 | 2.58 | 2.58 | 2.58 | 1.97 | 1.96 | 1.96 | 1.96 | 1.96 | 1.15 | 1.15 | 1.15 | 1.15 | 1.15 |
| 750 | 2.59 | 2.58 | 2.58 | 2.58 | 2.58 | 1.97 | 1.96 | 1.96 | 1.96 | 1.96 | 1.15 | 1.15 | 1.15 | 1.15 | 1.15 |
| 1000 | 2.59 | 2.58 | 2.58 | 2.58 | 2.58 | 1.96 | 1.96 | 1.96 | 1.96 | 1.96 | 1.15 | 1.15 | 1.15 | 1.15 | 1.15 |
| 2000 | 2.58 | 2.58 | 2.58 | 2.58 | 2.58 | 1.96 | 1.96 | 1.96 | 1.96 | 1.96 | 1.15 | 1.15 | 1.15 | 1.15 | 1.15 |
| 5000 | 2.58 | 2.58 | 2.58 | 2.58 | 2.58 | 1.96 | 1.96 | 1.96 | 1.96 | 1.96 | 1.15 | 1.15 | 1.15 | 1.15 | 1.15 |
| | Factor for Lower Bound | | | | | Factor for Lower Bound | | | | | Factor for Lower Bound | | | | |
| p<br>n | 1% | 5% | 10% | 20% | 40% | 1% | 5% | 10% | 20% | 40% | 1% | 5% | 10% | 20% | 40% |
| 25 | -2.21 | -2.42 | -2.48 | -2.52 | -2.56 | -1.77 | -1.88 | -1.91 | -1.93 | -1.95 | -1.13 | -1.14 | -1.14 | -1.15 | -1.15 |
| 50 | -2.39 | -2.50 | -2.53 | -2.55 | -2.57 | -1.87 | -1.92 | -1.93 | -1.95 | -1.96 | -1.14 | -1.15 | -1.15 | -1.15 | -1.15 |
| 75 | -2.45 | -2.52 | -2.54 | -2.56 | -2.57 | -1.90 | -1.93 | -1.94 | -1.95 | -1.96 | -1.14 | -1.15 | -1.15 | -1.15 | -1.15 |
| 100 | -2.48 | -2.54 | -2.55 | -2.56 | -2.57 | -1.91 | -1.94 | -1.95 | -1.95 | -1.96 | -1.15 | -1.15 | -1.15 | -1.15 | -1.15 |
| 150 | -2.51 | -2.55 | -2.56 | -2.57 | -2.57 | -1.93 | -1.95 | -1.95 | -1.96 | -1.96 | -1.15 | -1.15 | -1.15 | -1.15 | -1.15 |
| 200 | -2.53 | -2.56 | -2.56 | -2.57 | -2.57 | -1.94 | -1.95 | -1.95 | -1.96 | -1.96 | -1.15 | -1.15 | -1.15 | -1.15 | -1.15 |
| 300 | -2.54 | -2.56 | -2.57 | -2.57 | -2.57 | -1.94 | -1.95 | -1.96 | -1.96 | -1.96 | -1.15 | -1.15 | -1.15 | -1.15 | -1.15 |
| 400 | -2.55 | -2.57 | -2.57 | -2.57 | -2.57 | -1.95 | -1.96 | -1.96 | -1.96 | -1.96 | -1.15 | -1.15 | -1.15 | -1.15 | -1.15 |
| 500 | -2.56 | -2.57 | -2.57 | -2.57 | -2.58 | -1.95 | -1.96 | -1.96 | -1.96 | -1.96 | -1.15 | -1.15 | -1.15 | -1.15 | -1.15 |
| 750 | -2.56 | -2.57 | -2.57 | -2.57 | -2.58 | -1.95 | -1.96 | -1.96 | -1.96 | -1.96 | -1.15 | -1.15 | -1.15 | -1.15 | -1.15 |
| 1000 | -2.57 | -2.57 | -2.57 | -2.57 | -2.58 | -1.96 | -1.96 | -1.96 | -1.96 | -1.96 | -1.15 | -1.15 | -1.15 | -1.15 | -1.15 |
| 2000 | -2.57 | -2.57 | -2.57 | -2.58 | -2.58 | -1.96 | -1.96 | -1.96 | -1.96 | -1.96 | -1.15 | -1.15 | -1.15 | -1.15 | -1.15 |
| 5000 | -2.57 | -2.58 | -2.58 | -2.58 | -2.58 | -1.96 | -1.96 | -1.96 | -1.96 | -1.96 | -1.15 | -1.15 | -1.15 | -1.15 | -1.15 |

# Medicare Hospital Information

# AGUADILLA REGIONAL HOSPITAL

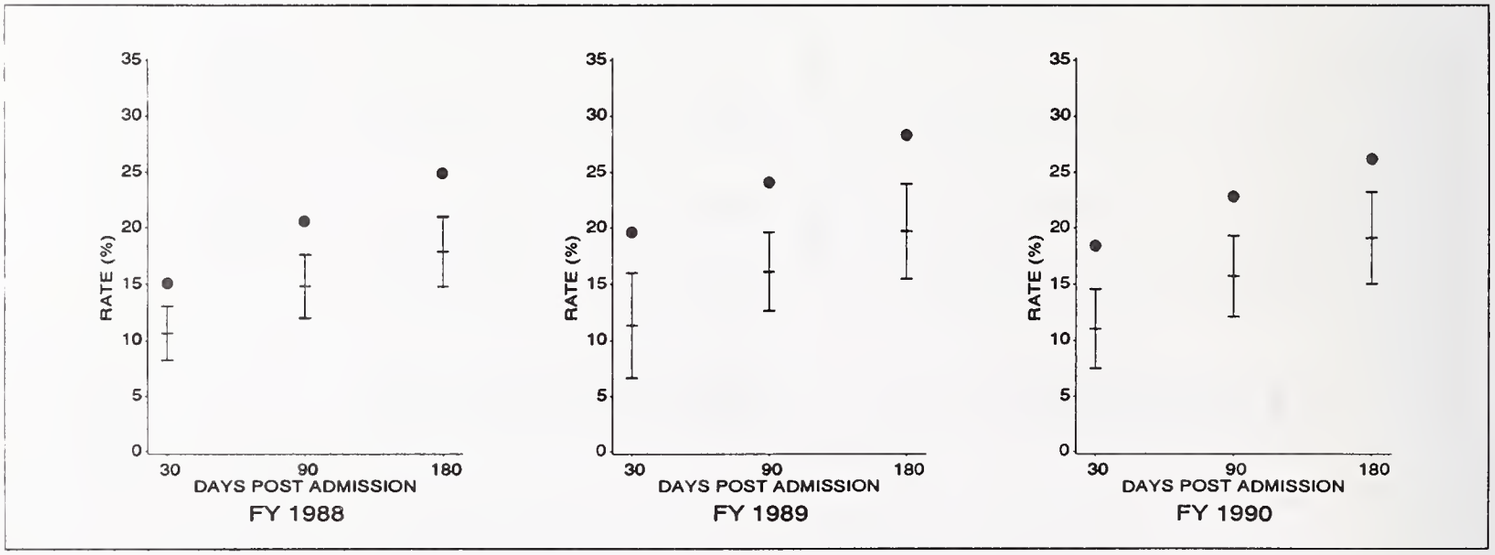
BO CAMASEYES, BOX 9368
AGUADILLA, PR 00603
Medicare Provider Number: 400079

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY | NUMBER OF CASES | MORTALITY RATES (%) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 30 DAYS | | | 90 DAYS | | | 180 DAYS | | |
| | | OBS | PRED | SD* | OBS | PRED | SD* | OBS | PRED | SD* |
| ALL CAUSES | 804 | 18.4 | 11.0 | 1.8 | 22.8 | 15.7 | 1.8 | 26.2 | 19.1 | 2.1 |
| CONDITIONS: | | | | | | | | | | |
| Acute Myocardial Infarction | 53 | 32.1 | 29.7 | 6.8 | 35.8 | 32.3 | 7.7 | 37.7 | 34.8 | 7.3 |
| Congestive Heart Failure | 64 | 10.9 | 14.2 | 4.6 | 17.2 | 22.1 | 5.6 | 29.7 | 28.1 | 5.7 |
| Pneumonia/Influenza | 75 | 45.3 | 18.3 | 6.6 | 54.7 | 24.2 | 8.8 | 58.7 | 28.0 | 10.6 |
| Chronic Obstructive Pulmonary Disease | 15 | 13.3 | 9.1 | ----- | 13.3 | 16.2 | ----- | 13.3 | 22.1 | ----- |
| Transient Cerebral Ischemia | 18 | 16.7 | 1.9 | ----- | 16.7 | 4.1 | ----- | 22.2 | 6.6 | ----- |
| Stroke | 45 | 44.4 | 23.0 | ----- | 44.4 | 29.0 | ----- | 46.7 | 32.5 | ----- |
| Hip Fracture | 1 | 0.0 | 2.6 | ----- | 0.0 | 4.8 | ----- | 0.0 | 6.7 | ----- |
| Sepsis | 5 | 80.0 | 27.7 | ----- | 80.0 | 35.4 | ----- | 80.0 | 39.5 | ----- |
| PROCEDURES: | | | | | | | | | | |
| Angioplasty | 0 | | | | | | | | | |
| Coronary Artery Bypass Graft | 0 | | | | | | | | | |
| Initial Pacemaker Insertion | 0 | | | | | | | | | |
| Carotid Endarterectomy | 0 | | | | | | | | | |
| Hip Replacement/Reconstruction | 0 | | | | | | | | | |
| Open Reduction of Hip Fracture | 0 | | | | | | | | | |
| Prostatectomy | 5 | 0.0 | 0.5 | ----- | 0.0 | 1.0 | ----- | 0.0 | 1.8 | ----- |
| Cholecystectomy | 19 | 0.0 | 3.2 | ----- | 10.5 | 5.6 | ----- | 10.5 | 7.2 | ----- |
| Hysterectomy | 8 | 0.0 | 0.2 | ----- | 0.0 | 0.3 | ----- | 0.0 | 0.6 | ----- |

* The Standard Deviation (SD) Is not calculated if the number of deaths or cases Is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# AGUADILLA REGIONAL HOSPITAL
Medicare Provider Number: 400079

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

DEMOGRAPHICS:

| | |
|---|---|
| Average age at admission | 72.7 years |
| Proportion female | 42.4 % |

ADMISSION SOURCES/TYPES:

| | |
|---|---|
| Referred by personal or HMO physician | 1.1 % |
| Transferred from skilled nursing facility | 0.0 % |
| Admitted for elective procedure | 22.7 % |
| Admitted for emergency | 75.2 % |

COMORBIDITIES:

| | |
|---|---|
| Cancer | 1.7 % |
| Chronic cardiovascular disease | 40.6 % |
| Chronic liver disease | 1.1 % |
| Chronic renal disease | 1.9 % |
| Chronic pulmonary disease | 14.4 % |
| Cerebrovascular degeneration | 1.0 % |
| Diabetes mellitus | 26.7 % |

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS*

ORIGIN OF MEDICARE PATIENT ADMISSION:

| | |
|---|---|
| County/City | 33.9% |
| State | 64.2% |
| Outside State | 1.9% |
| Total | 100.0% |

MEDICARE AVERAGE LENGTH OF STAY:

| | |
|---|---|
| Hospital | 7.1 Days |
| State | 7.2 Days |
| National | 8.6 Days |

## HOSPITAL CHARACTERISTICS*

SOURCE: Health Care Financing Administration (OSCAR)** - Survey Year 1990

PROFILE:

| | |
|---|---|
| Total Beds | 230 |
| Ownership/Control | State Government |
| Case Mix Index (CMI) | 1.1509 |

STAFFING:

| | |
|---|---|
| Medical Residents/Interns | 22 |
| Registered Nurses | 98 |
| Licensed Practical Nurses | 78 |

SPECIALTY SERVICES:

| | |
|---|---|
| Burn Unit | No |
| Coronary Care Unit | No |
| Hospice Care | No |
| Intensive Care Unit | No |
| Organ Transplant | No |
| Trauma Center | No |

OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

| | |
|---|---|
| Alcohol/Drug | No |
| Rehabilitation | No |
| Psychiatric | No |
| Medicare Swing Beds | No |

** Except for CMI

*** Not used in calculating mortality rates**

# ARECIBO DISTRICT HOSPITAL

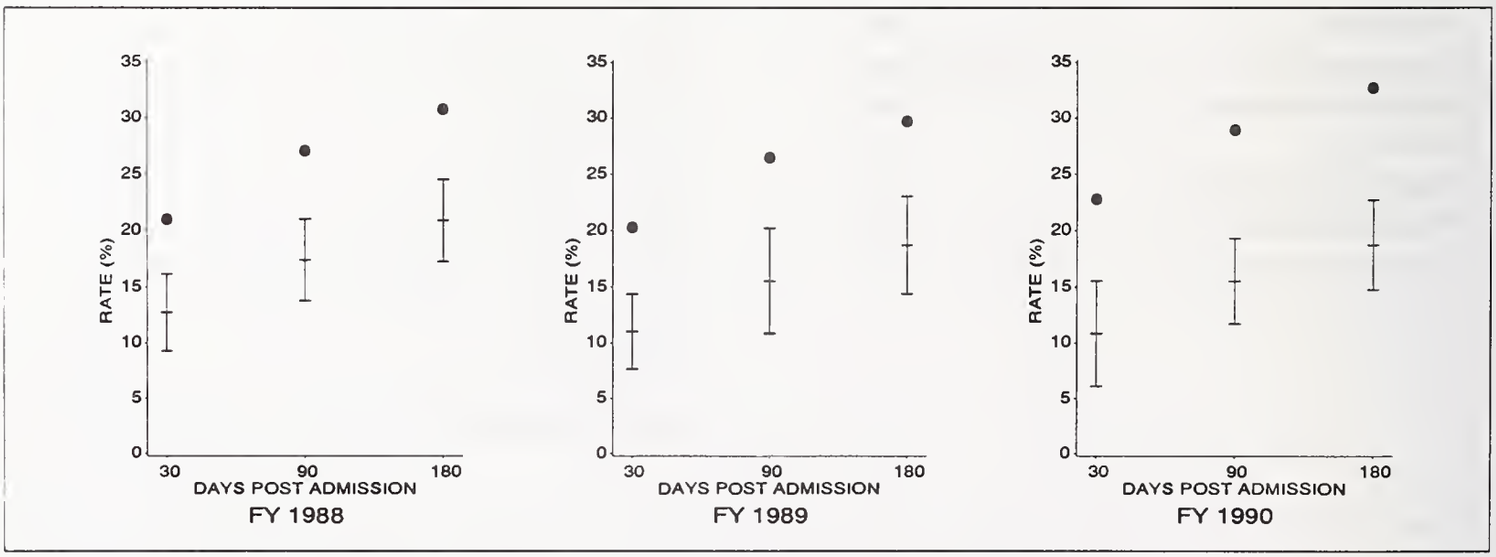
SAN LUIS AVE
ARECIBO, PR 00612
Medicare Provider Number: 400087

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY | NUMBER OF CASES | MORTALITY RATES (%) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 30 DAYS | | | 90 DAYS | | | 180 DAYS | | |
| | | OBS | PRED | SD* | OBS | PRED | SD* | OBS | PRED | SD* |
| ALL CAUSES | 930 | 22.8 | 10.8 | 2.4 | 28.9 | 15.5 | 1.9 | 32.7 | 18.7 | 2.0 |
| CONDITIONS: | | | | | | | | | | |
| Acute Myocardial Infarction | 49 | 34.7 | 25.8 | ----- | 36.7 | 28.1 | ----- | 36.7 | 30.7 | ----- |
| Congestive Heart Failure | 82 | 28.0 | 13.6 | 6.6 | 34.1 | 21.6 | 6.8 | 39.0 | 27.3 | 7.5 |
| Pneumonia/Influenza | 78 | 53.8 | 20.8 | 6.8 | 57.7 | 27.7 | 6.0 | 64.1 | 31.6 | 7.2 |
| Chronic Obstructive Pulmonary Disease | 1 | 0.0 | 14.9 | ----- | 0.0 | 21.7 | ----- | 0.0 | 26.3 | ----- |
| Transient Cerebral Ischemia | 2 | 0.0 | 1.1 | ----- | 0.0 | 2.8 | ----- | 0.0 | 4.6 | ----- |
| Stroke | 57 | 49.1 | 20.8 | 8.0 | 59.6 | 27.8 | 9.0 | 59.6 | 31.5 | 8.5 |
| Hip Fracture | 38 | 15.8 | 9.7 | ----- | 31.6 | 15.9 | ----- | 36.8 | 20.0 | ----- |
| Sepsis | 9 | 66.7 | 25.4 | ----- | 77.8 | 35.1 | ----- | 77.8 | 39.3 | ----- |
| PROCEDURES: | | | | | | | | | | |
| Angioplasty | 0 | | | | | | | | | |
| Coronary Artery Bypass Graft | 0 | | | | | | | | | |
| Initial Pacemaker Insertion | 0 | | | | | | | | | |
| Carotid Endarterectomy | 0 | | | | | | | | | |
| Hip Replacement/Reconstruction | 12 | 8.3 | 6.0 | ----- | 16.7 | 10.7 | ----- | 25.0 | 14.3 | ----- |
| Open Reduction of Hip Fracture | 21 | 19.0 | 10.0 | ----- | 38.1 | 16.5 | ----- | 42.9 | 20.6 | ----- |
| Prostatectomy | 5 | 0.0 | 1.4 | ----- | 0.0 | 3.0 | ----- | 0.0 | 5.2 | ----- |
| Cholecystectomy | 27 | 3.7 | 3.2 | ----- | 3.7 | 5.8 | ----- | 3.7 | 7.5 | ----- |
| Hysterectomy | 21 | 4.8 | 0.2 | ----- | 4.8 | 0.5 | ----- | 4.8 | 0.9 | ----- |

* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# ARECIBO DISTRICT HOSPITAL
Medicare Provider Number: 400087

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

DEMOGRAPHICS:

| | |
|---|---|
| Average age at admission | 74.2 years |
| Proportion female | 46.6 % |

ADMISSION SOURCES/TYPES:

| | |
|---|---|
| Referred by personal or HMO physician | 0.0 % |
| Transferred from skilled nursing facility | 0.1 % |
| Admitted for elective procedure | 0.0 % |
| Admitted for emergency | 99.1 % |

COMORBIDITIES:

| | |
|---|---|
| Cancer | 1.2 % |
| Chronic cardiovascular disease | 35.4 % |
| Chronic liver disease | 1.5 % |
| Chronic renal disease | 1.0 % |
| Chronic pulmonary disease | 8.9 % |
| Cerebrovascular degeneration | 0.0 % |
| Diabetes mellitus | 28.4 % |

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS*

ORIGIN OF MEDICARE PATIENT ADMISSION:

| | |
|---|---|
| County/City | 39.7% |
| State | 58.6% |
| Outside State | 1.7% |
| Total | 100.0% |

MEDICARE AVERAGE LENGTH OF STAY:

| | |
|---|---|
| Hospital | 8.5 Days |
| State | 7.2 Days |
| National | 8.6 Days |

## HOSPITAL CHARACTERISTICS*

SOURCE: Health Care Financing Administration (OSCAR)** - Survey Year 1991

PROFILE:

| | |
|---|---|
| Total Beds | 230 |
| Ownership/Control | State Government |
| Case Mix Index (CMI) | 1.2200 |

STAFFING:

| | |
|---|---|
| Medical Residents/Interns | 73 |
| Registered Nurses | 146 |
| Licensed Practical Nurses | 123 |

SPECIALTY SERVICES:

| | |
|---|---|
| Burn Unit | No |
| Coronary Care Unit | Yes |
| Hospice Care | No |
| Intensive Care Unit | Yes |
| Organ Transplant | No |
| Trauma Center | No |

OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

| | |
|---|---|
| Alcohol/Drug | No |
| Rehabilitation | No |
| Psychiatric | No |
| Medicare Swing Beds | No |

** Except for CMI

*** Not used in calculating mortality rates**

# ASHFORD MEMORIAL HOSPITAL

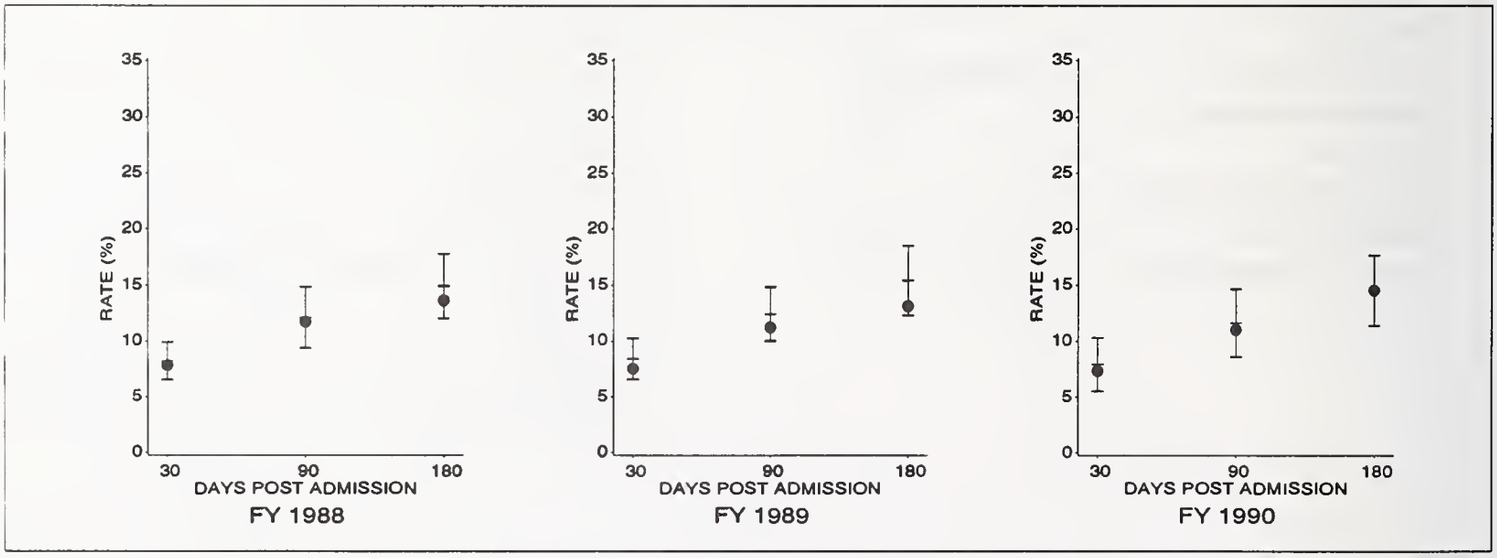
PO BOX 32
SAN JUAN, PR 00902
Medicare Provider Number: 400001

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY | NUMBER OF CASES | MORTALITY RATES (%) 30 DAYS OBS | 30 DAYS PRED | 30 DAYS SD* | 90 DAYS OBS | 90 DAYS PRED | 90 DAYS SD* | 180 DAYS OBS | 180 DAYS PRED | 180 DAYS SD* |
|---|---|---|---|---|---|---|---|---|---|---|
| ALL CAUSES | 1174 | 7.3 | 7.9 | 1.2 | 11.0 | 11.6 | 1.5 | 14.5 | 14.5 | 1.6 |
| CONDITIONS: | | | | | | | | | | |
| Acute Myocardial Infarction | 31 | 29.0 | 28.5 | ----- | 35.5 | 31.2 | ----- | 35.5 | 33.8 | ----- |
| Congestive Heart Failure | 49 | 8.2 | 14.9 | ----- | 12.2 | 23.5 | ----- | 20.4 | 30.0 | ----- |
| Pneumonia/Influenza | 46 | 26.1 | 16.5 | ----- | 26.1 | 22.2 | ----- | 30.4 | 26.1 | ----- |
| Chronic Obstructive Pulmonary Disease | 6 | 0.0 | 7.7 | ----- | 0.0 | 13.8 | ----- | 0.0 | 18.2 | ----- |
| Transient Cerebral Ischemia | 27 | 11.1 | 1.7 | ----- | 11.1 | 3.9 | ----- | 11.1 | 6.3 | ----- |
| Stroke | 51 | 19.6 | 18.6 | 5.7 | 25.5 | 25.4 | 6.4 | 27.5 | 29.2 | 6.8 |
| Hip Fracture | 22 | 0.0 | 6.3 | ----- | 4.5 | 11.5 | ----- | 4.5 | 15.1 | ----- |
| Sepsis | 16 | 18.8 | 22.0 | ----- | 37.5 | 28.1 | ----- | 50.0 | 33.1 | ----- |
| PROCEDURES: | | | | | | | | | | |
| Angioplasty | 0 | | | | | | | | | |
| Coronary Artery Bypass Graft | 0 | | | | | | | | | |
| Initial Pacemaker Insertion | 8 | 0.0 | 5.5 | ----- | 0.0 | 8.6 | ----- | 0.0 | 11.4 | ----- |
| Carotid Endarterectomy | 0 | | | | | | | | | |
| Hip Replacement/Reconstruction | 6 | 0.0 | 2.8 | ----- | 0.0 | 5.1 | ----- | 0.0 | 6.9 | ----- |
| Open Reduction of Hip Fracture | 12 | 0.0 | 6.5 | ----- | 0.0 | 12.6 | ----- | 0.0 | 16.8 | ----- |
| Prostatectomy | 39 | 0.0 | 0.8 | ----- | 5.1 | 1.8 | ----- | 7.7 | 3.1 | ----- |
| Cholecystectomy | 44 | 2.3 | 0.9 | ----- | 2.3 | 1.9 | ----- | 4.5 | 2.7 | ----- |
| Hysterectomy | 13 | 0.0 | 0.2 | ----- | 0.0 | 0.5 | ----- | 0.0 | 1.0 | ----- |

* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# ASHFORD MEMORIAL HOSPITAL
Medicare Provider Number: 400001

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

DEMOGRAPHICS:

| | |
|---|---|
| Average age at admission | 74.8 years |
| Proportion female | 56.9 % |

ADMISSION SOURCES/TYPES:

| | |
|---|---|
| Referred by personal or HMO physician | 47.0 % |
| Transferred from skilled nursing facility | 0.0 % |
| Admitted for elective procedure | 27.1 % |
| Admitted for emergency | 50.2 % |

COMORBIDITIES:

| | |
|---|---|
| Cancer | 4.6 % |
| Chronic cardiovascular disease | 33.8 % |
| Chronic liver disease | 1.3 % |
| Chronic renal disease | 2.1 % |
| Chronic pulmonary disease | 7.6 % |
| Cerebrovascular degeneration | 1.4 % |
| Diabetes mellitus | 14.6 % |

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS*

ORIGIN OF MEDICARE PATIENT ADMISSION:

| | |
|---|---|
| County/City | 54.8% |
| State | 40.8% |
| Outside State | 4.4% |
| Total | 100.0% |

MEDICARE AVERAGE LENGTH OF STAY:

| | |
|---|---|
| Hospital | 7.0 Days |
| State | 7.2 Days |
| National | 8.6 Days |

## HOSPITAL CHARACTERISTICS*

SOURCE: Health Care Financing Administration (OSCAR)** - Survey Year 1991

PROFILE:

| | |
|---|---|
| Total Beds | 207 |
| Ownership.Control | Private, Non-Profit |
| Case Mix Index (CMI) | 1.1119 |

STAFFING:

| | |
|---|---|
| Medical Residents/Interns | 3 |
| Registered Nurses | 111 |
| Licensed Practical Nurses | 860 |

SPECIALTY SERVICES:

| | |
|---|---|
| Burn Unit | No |
| Coronary Care Unit | Yes |
| Hospice Care | No |
| Intensive Care Unit | Yes |
| Organ Transplant | No |
| Trauma Center | No |

OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

| | |
|---|---|
| Alcohol/Drug | No |
| Rehabilitation | No |
| Psychiatric | No |
| Medicare Swing Beds | No |

** Except for CMI

*** Not used in calculating mortality rates**

# AUXILIO MUTUO HOSPITAL

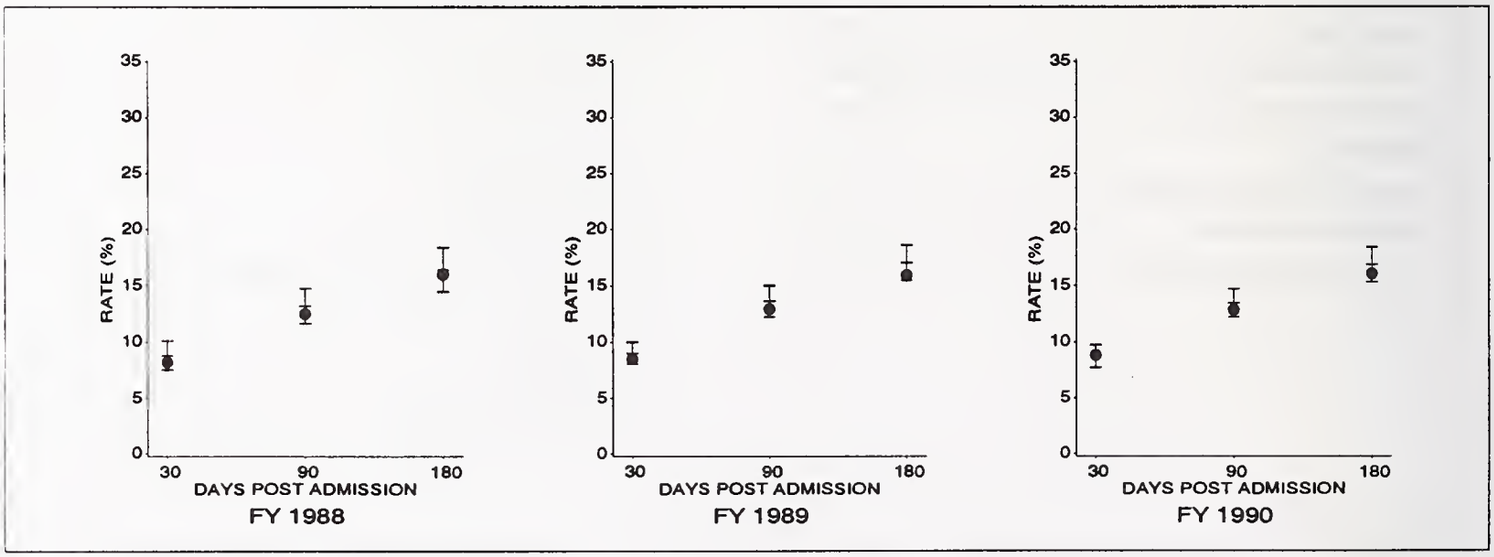
PONCE DE LEON AVE
HATO REY, PR 00919
Medicare Provider Number: 400016

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY | NUMBER OF CASES | MORTALITY RATES (%) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 30 DAYS | | | 90 DAYS | | | 180 DAYS | | |
| | | OBS | PRED | SD* | OBS | PRED | SD* | OBS | PRED | SD* |
| ALL CAUSES | 4067 | 8.8 | 8.7 | 0.5 | 12.8 | 13.4 | 0.6 | 16.0 | 16.8 | 0.8 |
| CONDITIONS: | | | | | | | | | | |
| Acute Myocardial Infarction | 85 | 32.9 | 28.1 | 8.1 | 36.5 | 31.0 | 7.6 | 36.5 | 33.7 | 7.4 |
| Congestive Heart Failure | 172 | 13.4 | 13.7 | 3.0 | 18.0 | 22.2 | 4.5 | 25.6 | 28.5 | 4.2 |
| Pneumonia/Influenza | 140 | 14.3 | 17.8 | 3.9 | 23.6 | 23.9 | 3.6 | 27.9 | 27.8 | 4.1 |
| Chronic Obstructive Pulmonary Disease | 27 | 0.0 | 8.3 | ----- | 0.0 | 14.3 | ----- | 3.7 | 18.3 | ----- |
| Transient Cerebral Ischemia | 56 | 1.8 | 2.1 | 2.1 | 5.4 | 4.7 | 2.9 | 7.1 | 7.6 | 3.9 |
| Stroke | 115 | 20.9 | 23.4 | 5.3 | 25.2 | 30.6 | 6.6 | 29.6 | 34.4 | 7.7 |
| Hip Fracture | 91 | 4.4 | 7.6 | 3.4 | 9.9 | 13.2 | 4.1 | 14.3 | 16.9 | 5.3 |
| Sepsis | 81 | 38.3 | 28.5 | 10.3 | 48.1 | 36.5 | 11.3 | 53.1 | 41.4 | 11.3 |
| PROCEDURES: | | | | | | | | | | |
| Angioplasty | 0 | | | | | | | | | |
| Coronary Artery Bypass Graft | 0 | | | | | | | | | |
| initial Pacemaker Insertion | 20 | 0.0 | 3.4 | ----- | 5.0 | 6.9 | ----- | 5.0 | 10.0 | ----- |
| Carotid Endarterectomy | 0 | | | | | | | | | |
| Hip Replacement/Reconstruction | 56 | 0.0 | 2.3 | 3.2 | 0.0 | 4.2 | 5.2 | 1.8 | 5.6 | 5.4 |
| Open Reduction of Hip Fracture | 52 | 3.8 | 7.9 | 5.6 | 9.6 | 14.3 | 6.6 | 13.5 | 18.6 | 6.6 |
| Prostatectomy | 216 | 0.5 | 0.7 | 0.8 | 1.9 | 1.6 | 1.1 | 2.8 | 2.8 | 1.2 |
| Cholecystectomy | 94 | 1.1 | 2.2 | 2.3 | 1.1 | 4.4 | 3.7 | 3.2 | 6.2 | 3.9 |
| Hysterectomy | 44 | 2.3 | 0.5 | ----- | 2.3 | 1.1 | ----- | 4.5 | 1.9 | ----- |

* The Standard Deviation (SD) Is not calcuiated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# AUXILIO MUTUO HOSPITAL
Medicare Provider Number: 400016

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

DEMOGRAPHICS:

| | |
|---|---|
| Average age at admission | 71.8 years |
| Proportion female | 52.1 % |

ADMISSION SOURCES/TYPES:

| | |
|---|---|
| Referred by personal or HMO physician | 44.3 % |
| Transferred from skilled nursing facility | 0.0 % |
| Admitted for elective procedure | 39.8 % |
| Admitted for emergency | 49.9 % |

COMORBIDITIES:

| | |
|---|---|
| Cancer | 6.2 % |
| Chronic cardiovascular disease | 31.8 % |
| Chronic liver disease | 1.6 % |
| Chronic renal disease | 14.6 % |
| Chronic pulmonary disease | 9.1 % |
| Cerebrovascular degeneration | 1.3 % |
| Diabetes mellitus | 16.2 % |

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS*

ORIGIN OF MEDICARE PATIENT ADMISSION:

| | |
|---|---|
| County/City | 52.6% |
| State | 45.4% |
| Outside State | 2.0% |
| Total | 100.0% |

MEDICARE AVERAGE LENGTH OF STAY:

| | |
|---|---|
| Hospital | 7.6 Days |
| State | 7.2 Days |
| National | 8.6 Days |

## HOSPITAL CHARACTERISTICS*

SOURCE: Health Care Financing Administration (OSCAR)** - Survey Year 1990

PROFILE:

| | |
|---|---|
| Total Beds | 386 |
| Ownership.Control | Private, Non-Profit |
| Case Mix Index (CMI) | 1.2651 |

STAFFING:

| | |
|---|---|
| Medical Residents/Interns | 8 |
| Registered Nurses | 0 |
| Licensed Practical Nurses | 164 |

SPECIALTY SERVICES:

| | |
|---|---|
| Burn Unit | No |
| Coronary Care Unit | Yes |
| Hospice Care | No |
| Intensive Care Unit | Yes |
| Organ Transplant | Yes |
| Trauma Center | No |

OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

| | |
|---|---|
| Alcohol/Drug | No |
| Rehabilitation | No |
| Psychiatric | No |
| Medicare Swing Beds | No |

** Except for CMI

*** Not used in calculating mortality rates**

# BELLA VISTA HOSPITAL

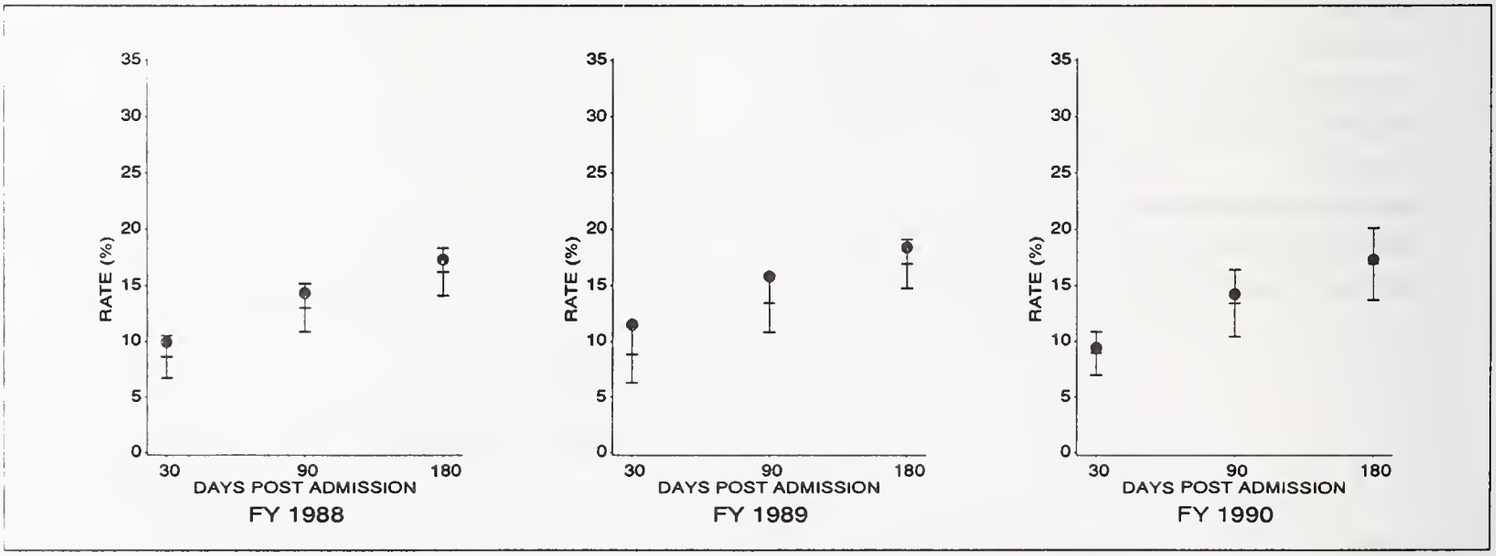
BOX 1750
MAYAGUEZ, PR 00708
Medicare Provider Number: 400014

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY | NUMBER OF CASES | MORTALITY RATES (%) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 30 DAYS | | | 90 DAYS | | | 180 DAYS | | |
| | | OBS | PRED | SD* | OBS | PRED | SD* | OBS | PRED | SD* |
| ALL CAUSES | 1652 | 9.4 | 8.9 | 1.0 | 14.2 | 13.4 | 1.5 | 17.3 | 16.9 | 1.6 |
| CONDITIONS: | | | | | | | | | | |
| Acute Myocardial Infarction | 51 | 29.4 | 25.3 | 7.2 | 35.3 | 28.4 | 8.4 | 35.3 | 31.1 | 8.4 |
| Congestive Heart Failure | 112 | 9.8 | 14.2 | 3.7 | 23.2 | 22.6 | 4.0 | 30.4 | 28.7 | 5.9 |
| Pneumonia/Influenza | 99 | 25.3 | 15.4 | 5.6 | 32.3 | 20.7 | 5.9 | 35.4 | 24.2 | 6.0 |
| Chronic Obstructive Pulmonary Disease | 17 | 5.9 | 12.1 | ----- | 5.9 | 20.0 | ----- | 17.6 | 25.3 | ----- |
| Transient Cerebral Ischemia | 23 | 0.0 | 1.5 | ----- | 4.3 | 3.4 | ----- | 4.3 | 5.6 | ----- |
| Stroke | 58 | 27.6 | 19.7 | 10.2 | 32.8 | 25.9 | 10.9 | 34.5 | 29.9 | 9.5 |
| Hip Fracture | 34 | 0.0 | 5.3 | ----- | 2.9 | 9.3 | ----- | 5.9 | 12.1 | ----- |
| Sepsis | 17 | 29.4 | 32.8 | ----- | 35.3 | 37.8 | ----- | 41.2 | 41.4 | ----- |
| PROCEDURES: | | | | | | | | | | |
| Angioplasty | 0 | | | | | | | | | |
| Coronary Artery Bypass Graft | 0 | | | | | | | | | |
| Initial Pacemaker Insertion | 42 | 4.8 | 2.9 | ----- | 4.8 | 5.5 | ----- | 11.9 | 8.0 | ----- |
| Carotid Endarterectomy | 0 | | | | | | | | | |
| Hip Replacement/Reconstruction | 20 | 0.0 | 3.3 | ----- | 10.0 | 6.0 | ----- | 10.0 | 8.1 | ----- |
| Open Reduction of Hip Fracture | 14 | 0.0 | 3.8 | ----- | 0.0 | 7.1 | ----- | 7.1 | 9.7 | ----- |
| Prostatectomy | 140 | 0.0 | 0.8 | 0.9 | 0.0 | 1.6 | 1.5 | 0.0 | 2.8 | 2.2 |
| Cholecystectomy | 55 | 0.0 | 2.2 | 3.1 | 0.0 | 4.2 | 5.0 | 0.0 | 5.6 | 6.2 |
| Hysterectomy | 35 | 0.0 | 0.2 | ----- | 0.0 | 0.5 | ----- | 0.0 | 0.8 | ----- |

* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# BELLA VISTA HOSPITAL
Medicare Provider Number: 400014

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

DEMOGRAPHICS:

| | |
|---|---|
| Average age at admission | 74.2 years |
| Proportion female | 46.9 % |

ADMISSION SOURCES/TYPES:

| | |
|---|---|
| Referred by personal or HMO physician | 46.1 % |
| Transferred from skilled nursing facility | 0.0 % |
| Admitted for elective procedure | 31.4 % |
| Admitted for emergency | 11.6 % |

COMORBIDITIES:

| | |
|---|---|
| Cancer | 6.9 % |
| Chronic cardiovascular disease | 43.5 % |
| Chronic liver disease | 2.2 % |
| Chronic renal disease | 1.4 % |
| Chronic pulmonary disease | 16.3 % |
| Cerebrovascular degeneration | 1.4 % |
| Diabetes mellitus | 22.9 % |

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS*

ORIGIN OF MEDICARE PATIENT ADMISSION:

| | |
|---|---|
| County/City | 39.7% |
| State | 59.2% |
| Outside State | 1.1% |
| Total | 100.0% |

MEDICARE AVERAGE LENGTH OF STAY:

| | |
|---|---|
| Hospital | 7.0 Days |
| State | 7.2 Days |
| National | 8.6 Days |

## HOSPITAL CHARACTERISTICS*

SOURCE: Health Care Financing Administration (OSCAR)** - Survey Year 1988

PROFILE:

| | |
|---|---|
| Total Beds | 157 |
| Ownership/Control | Church |
| Case Mix Index (CMI) | 1.3554 |

STAFFING:

| | |
|---|---|
| Medical Residents/Interns | 2 |
| Registered Nurses | 73 |
| Licensed Practical Nurses | 46 |

SPECIALTY SERVICES:

| | |
|---|---|
| Burn Unit | No |
| Coronary Care Unit | Yes |
| Hospice Care | No |
| Intensive Care Unit | Yes |
| Organ Transplant | No |
| Trauma Center | No |

OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

| | |
|---|---|
| Alcohol/Drug | No |
| Rehabilitation | No |
| Psychiatric | No |
| Medicare Swing Beds | No |

** Except for CMI

*** Not used in calculating mortality rates**

# CAROLINA AREA HOSPITAL

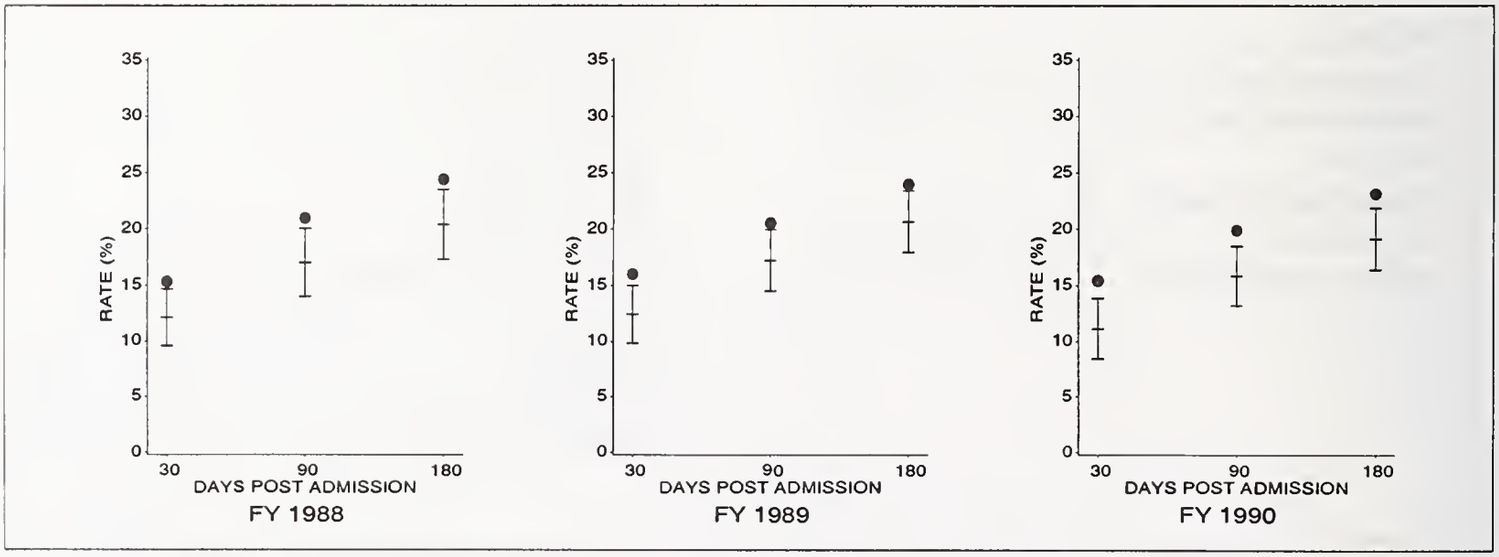
AVE 65TH INFANTERIA, BOX 3747
CAROLINA, PR 00630
Medicare Provider Number: 400112

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY | NUMBER OF CASES | MORTALITY RATES (%) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 30 DAYS | | | 90 DAYS | | | 180 DAYS | | |
| | | OBS | PRED | SD* | OBS | PRED | SD* | OBS | PRED | SD* |
| ALL CAUSES | 1350 | 15.4 | 11.1 | 1.4 | 19.9 | 15.8 | 1.3 | 23.1 | 19.1 | 1.4 |
| CONDITIONS: | | | | | | | | | | |
| Acute Myocardial Infarction | 65 | 30.8 | 26.0 | 6.9 | 32.3 | 28.9 | 6.3 | 33.8 | 31.6 | 6.1 |
| Congestive Heart Failure | 122 | 20.5 | 12.5 | 5.1 | 29.5 | 20.1 | 5.1 | 31.1 | 26.0 | 5.5 |
| Pneumonia/Influenza | 89 | 33.7 | 18.9 | 6.1 | 37.1 | 25.6 | 5.8 | 38.2 | 29.6 | 5.5 |
| Chronic Obstructive Pulmonary Disease | 2 | 0.0 | 6.0 | ----- | 0.0 | 10.3 | ----- | 0.0 | 14.5 | ----- |
| Transient Cerebral Ischemia | 13 | 0.0 | 1.4 | ----- | 0.0 | 3.2 | ----- | 7.7 | 5.3 | ----- |
| Stroke | 77 | 27.3 | 21.6 | 7.3 | 32.5 | 27.3 | 8.9 | 36.4 | 30.7 | 10.4 |
| Hip Fracture | 0 | | | | | | | | | |
| Sepsis | 31 | 51.6 | 32.9 | ----- | 58.1 | 41.4 | ----- | 67.7 | 46.3 | ----- |
| PROCEDURES: | | | | | | | | | | |
| Angioplasty | 0 | | | | | | | | | |
| Coronary Artery Bypass Graft | 0 | | | | | | | | | |
| Initial Pacemaker Insertion | 3 | 0.0 | 6.4 | ----- | 0.0 | 11.6 | ----- | 0.0 | 16.1 | ----- |
| Carotid Endarterectomy | 0 | | | | | | | | | |
| Hip Replacement/Reconstruction | 0 | | | | | | | | | |
| Open Reduction of Hip Fracture | 0 | | | | | | | | | |
| Prostatectomy | 50 | 0.0 | 0.8 | ----- | 0.0 | 1.8 | ----- | 0.0 | 3.1 | ----- |
| Cholecystectomy | 32 | 3.1 | 3.3 | ----- | 3.1 | 6.7 | ----- | 6.3 | 9.3 | ----- |
| Hysterectomy | 16 | 0.0 | 0.3 | ----- | 0.0 | 0.6 | ----- | 0.0 | 1.0 | ----- |

* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# CAROLINA AREA HOSPITAL
Medicare Provider Number: 400112

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

DEMOGRAPHICS:

| | |
|---|---|
| Average age at admission | 73.4 years |
| Proportion female | 42.8 % |

ADMISSION SOURCES/TYPES:

| | |
|---|---|
| Referred by personal or HMO physician | 1.9 % |
| Transferred from skilled nursing facility | 0.0 % |
| Admitted for elective procedure | 9.6 % |
| Admitted for emergency | 85.1 % |

COMORBIDITIES:

| | |
|---|---|
| Cancer | 3.6 % |
| Chronic cardiovascular disease | 30.6 % |
| Chronic liver disease | 1.0 % |
| Chronic renal disease | 0.3 % |
| Chronic pulmonary disease | 11.6 % |
| Cerebrovascular degeneration | 0.5 % |
| Diabetes mellitus | 21.6 % |

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS*

ORIGIN OF MEDICARE PATIENT ADMISSION:

| | |
|---|---|
| County/City | 45.1% |
| State | 53.6% |
| Outside State | 1.3% |
| Total | 100.0% |

MEDICARE AVERAGE LENGTH OF STAY:

| | |
|---|---|
| Hospital | 8.2 Days |
| State | 7.2 Days |
| National | 8.6 Days |

## HOSPITAL CHARACTERISTICS*

SOURCE: Health Care Financing Administration (OSCAR)** - Survey Year 1989

PROFILE:

| | |
|---|---|
| Total Beds | 250 |
| Ownership/Control | Private, For Profit |
| Case Mix Index (CMI) | 1.2351 |

STAFFING:

| | |
|---|---|
| Medical Residents/Interns | 1 |
| Registered Nurses | 148 |
| Licensed Practical Nurses | 96 |

SPECIALTY SERVICES:

| | |
|---|---|
| Burn Unit | No |
| Coronary Care Unit | No |
| Hospice Care | No |
| Intensive Care Unit | Yes |
| Organ Transplant | No |
| Trauma Center | No |

OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

| | |
|---|---|
| Alcohol/Drug | No |
| Rehabilitation | No |
| Psychiatric | Yes |
| Medicare Swing Beds | No |

** Except for CMI

* Not used in calculating mortality rates

# CASTANER GENERAL HOSPITAL

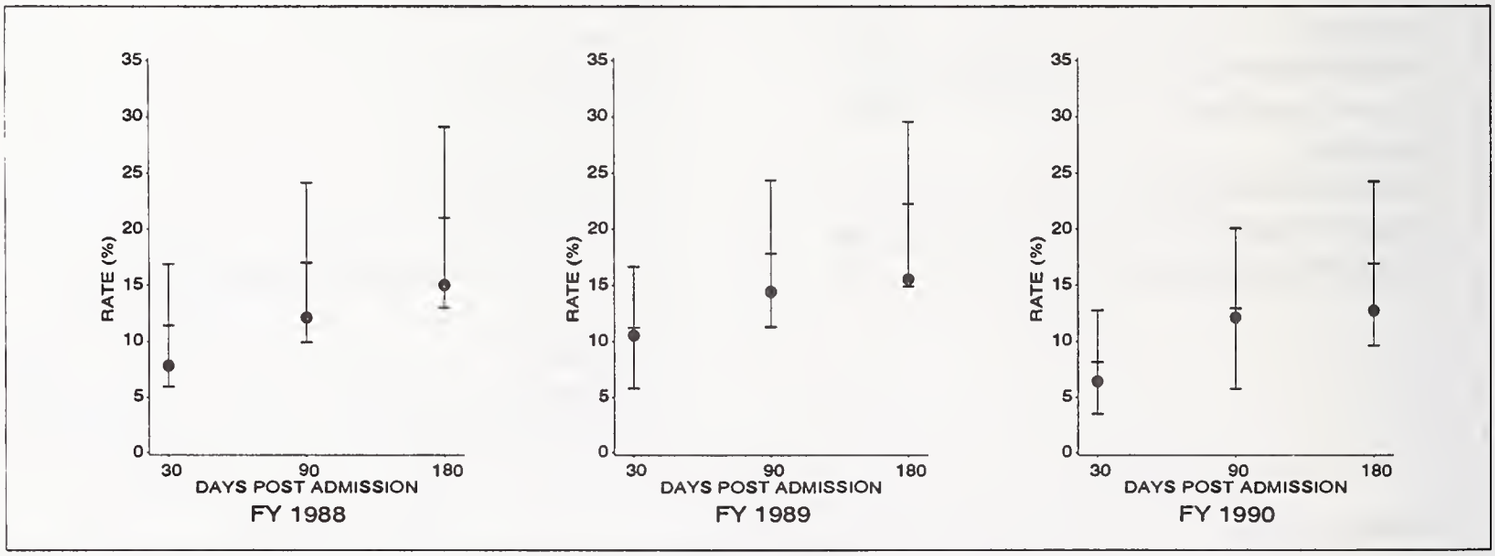
P O BOX 23
CASTANER, PR 00631
Medicare Provider Number: 400010

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY | NUMBER OF CASES | MORTALITY RATES (%) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 30 DAYS | | | 90 DAYS | | | 180 DAYS | | |
| | | OBS | PRED | SD* | OBS | PRED | SD* | OBS | PRED | SD* |
| ALL CAUSES | 157 | 6.4 | 8.1 | 2.3 | 12.1 | 12.9 | 3.6 | 12.7 | 16.9 | 3.7 |
| CONDITIONS: | | | | | | | | | | |
| Acute Myocardial Infarction | 2 | 0.0 | 36.9 | ----- | 50.0 | 39.1 | ----- | 50.0 | 41.5 | ----- |
| Congestive Heart Failure | 11 | 9.1 | 15.1 | ----- | 27.3 | 23.2 | ----- | 36.4 | 30.7 | ----- |
| Pneumonia/Influenza | 2 | 100.0 | 22.0 | ----- | 100.0 | 28.9 | ----- | 100.0 | 36.3 | ----- |
| Chronic Obstructive Pulmonary Disease | 13 | 7.7 | 12.8 | ----- | 7.7 | 20.2 | ----- | 7.7 | 26.0 | ----- |
| Transient Cerebral Ischemia | 3 | 0.0 | 1.2 | ----- | 0.0 | 2.8 | ----- | 0.0 | 4.4 | ----- |
| Stroke | 6 | 0.0 | 23.5 | ----- | 0.0 | 30.4 | ----- | 0.0 | 34.1 | ----- |
| Hip Fracture | 0 | | | | | | | | | |
| Sepsis | 4 | 75.0 | 16.6 | ----- | 75.0 | 25.9 | ----- | 75.0 | 31.3 | ----- |
| PROCEDURES: | | | | | | | | | | |
| Angioplasty | 0 | | | | | | | | | |
| Coronary Artery Bypass Graft | 0 | | | | | | | | | |
| Initial Pacemaker Insertion | 0 | | | | | | | | | |
| Carotid Endarterectomy | 0 | | | | | | | | | |
| Hip Replacement/Reconstruction | 0 | | | | | | | | | |
| Open Reduction of Hip Fracture | 0 | | | | | | | | | |
| Prostatectomy | 0 | | | | | | | | | |
| Cholecystectomy | 1 | 0.0 | 10.3 | ----- | 0.0 | 17.2 | ----- | 0.0 | 21.4 | ----- |
| Hysterectomy | 0 | | | | | | | | | |

* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# CASTANER GENERAL HOSPITAL

Medicare Provider Number: 400010

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

DEMOGRAPHICS:

| | |
|---|---|
| Average age at admission | 75.7 years |
| Proportion female | 47.8 % |

ADMISSION SOURCES/TYPES:

| | |
|---|---|
| Referred by personal or HMO physician | 8.9 % |
| Transferred from skilled nursing facility | 0.0 % |
| Admitted for elective procedure | 0.0 % |
| Admitted for emergency | 56.1 % |

COMORBIDITIES:

| | |
|---|---|
| Cancer | 0.6 % |
| Chronic cardiovascular disease | 41.4 % |
| Chronic liver disease | 1.3 % |
| Chronic renal disease | 2.5 % |
| Chronic pulmonary disease | 58.6 % |
| Cerebrovascular degeneration | 0.6 % |
| Diabetes mellitus | 23.6 % |

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS*

ORIGIN OF MEDICARE PATIENT ADMISSION:

| | |
|---|---|
| County/City | 54.3% |
| State | 43.5% |
| Outside State | 2.2% |
| Total | 100.0% |

MEDICARE AVERAGE LENGTH OF STAY:

| | |
|---|---|
| Hospital | 5.1 Days |
| State | 7.2 Days |
| National | 8.6 Days |

## HOSPITAL CHARACTERISTICS*

SOURCE: Health Care Financing Administration (OSCAR)** - Survey Year 1990

PROFILE:

| | |
|---|---|
| Total Beds | 33 |
| Ownership.Control | Private, Non-Profit |
| Case Mix Index (CMI) | 1.0300 |

STAFFING:

| | |
|---|---|
| Medical Residents/Interns | 9 |
| Registered Nurses | 17 |
| Licensed Practical Nurses | 10 |

SPECIALTY SERVICES:

| | |
|---|---|
| Burn Unit | No |
| Coronary Care Unit | No |
| Hospice Care | No |
| Intensive Care Unit | No |
| Organ Transplant | No |
| Trauma Center | No |

OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

| | |
|---|---|
| Alcohol/Drug | No |
| Rehabilitation | No |
| Psychiatric | No |
| Medicare Swing Beds | No |

** Except for CMI

*** Not used in calculating mortality rates**

# CAYEY HEALTH CENTER

LUIS BARRERAS ST
CAYEY, PR 00633
Medicare Provider Number: 400037

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY | NUMBER OF CASES | MORTALITY RATES (%) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 30 DAYS | | | 90 DAYS | | | 180 DAYS | | |
| | | OBS | PRED | SD* | OBS | PRED | SD* | OBS | PRED | SD* |
| ALL CAUSES | 20 | 5.0 | 7.7 | ----- | 5.0 | 11.7 | ----- | 5.0 | 14.3 | ----- |
| CONDITIONS: | | | | | | | | | | |
| Acute Myocardial Infarction | 0 | | | | | | | | | |
| Congestive Heart Failure | 3 | 33.3 | 20.2 | ----- | 33.3 | 31.4 | ----- | 33.3 | 36.8 | ----- |
| Pneumonia/Influenza | 4 | 0.0 | 16.7 | ----- | 0.0 | 21.9 | ----- | 0.0 | 25.1 | ----- |
| Chronic Obstructive Pulmonary Disease | 0 | | | | | | | | | |
| Transient Cerebral Ischemia | 0 | | | | | | | | | |
| Stroke | 0 | | | | | | | | | |
| Hip Fracture | 0 | | | | | | | | | |
| Sepsis | 0 | | | | | | | | | |
| PROCEDURES: | | | | | | | | | | |
| Angioplasty | 0 | | | | | | | | | |
| Coronary Artery Bypass Graft | 0 | | | | | | | | | |
| Initial Pacemaker Insertion | 0 | | | | | | | | | |
| Carotid Endarterectomy | 0 | | | | | | | | | |
| Hip Replacement/Reconstruction | 0 | | | | | | | | | |
| Open Reduction of Hip Fracture | 0 | | | | | | | | | |
| Prostatectomy | 0 | | | | | | | | | |
| Cholecystectomy | 0 | | | | | | | | | |
| Hysterectomy | 0 | | | | | | | | | |

* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES

No Graphs are presented when the standard deviation was not computed for one or more of the three fiscal years, (1988, 1989, or 1990)

# CAYEY HEALTH CENTER
Medicare Provider Number: 400037

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

DEMOGRAPHICS:

| | |
|---|---|
| Average age at admission | 72.4 years |
| Proportion female | 55.0 % |

ADMISSION SOURCES/TYPES:

| | |
|---|---|
| Referred by personal or HMO physician | 0.0 % |
| Transferred from skilled nursing facility | 0.0 % |
| Admitted for elective procedure | 35.0 % |
| Admitted for emergency | 60.0 % |

COMORBIDITIES:

| | |
|---|---|
| Cancer | 0.0 % |
| Chronic cardiovascular disease | 40.0 % |
| Chronic liver disease | 0.0 % |
| Chronic renal disease | 0.0 % |
| Chronic pulmonary disease | 20.0 % |
| Cerebrovascular degeneration | 0.0 % |
| Diabetes mellitus | 5.0 % |

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS*

ORIGIN OF MEDICARE PATIENT ADMISSION:

| | |
|---|---|
| County/City | 60.8% |
| State | 32.1% |
| Outside State | 7.1% |
| Total | 100.0% |

MEDICARE AVERAGE LENGTH OF STAY:

| | |
|---|---|
| Hospital | 11.5 Days |
| State | 7.2 Days |
| National | 8.6 Days |

## HOSPITAL CHARACTERISTICS*

SOURCE: Health Care Financing Administration (OSCAR)** - Survey Year 1989

PROFILE:

| | |
|---|---|
| Total Beds | 42 |
| Ownership/Control | State Government |
| Case Mix Index (CMI) | 0.8608 |

STAFFING:

| | |
|---|---|
| Medical Residents/Interns | 16 |
| Registered Nurses | 32 |
| Licensed Practical Nurses | 19 |

SPECIALTY SERVICES:

| | |
|---|---|
| Burn Unit | No |
| Coronary Care Unit | No |
| Hospice Care | No |
| Intensive Care Unit | No |
| Organ Transplant | No |
| Trauma Center | No |

OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

| | |
|---|---|
| Alcohol/Drug | No |
| Rehabilitation | No |
| Psychiatric | No |
| Medicare Swing Beds | No |

** Except for CMI

*** Not used in calculating mortality rates**

# CLINICA DR PILA

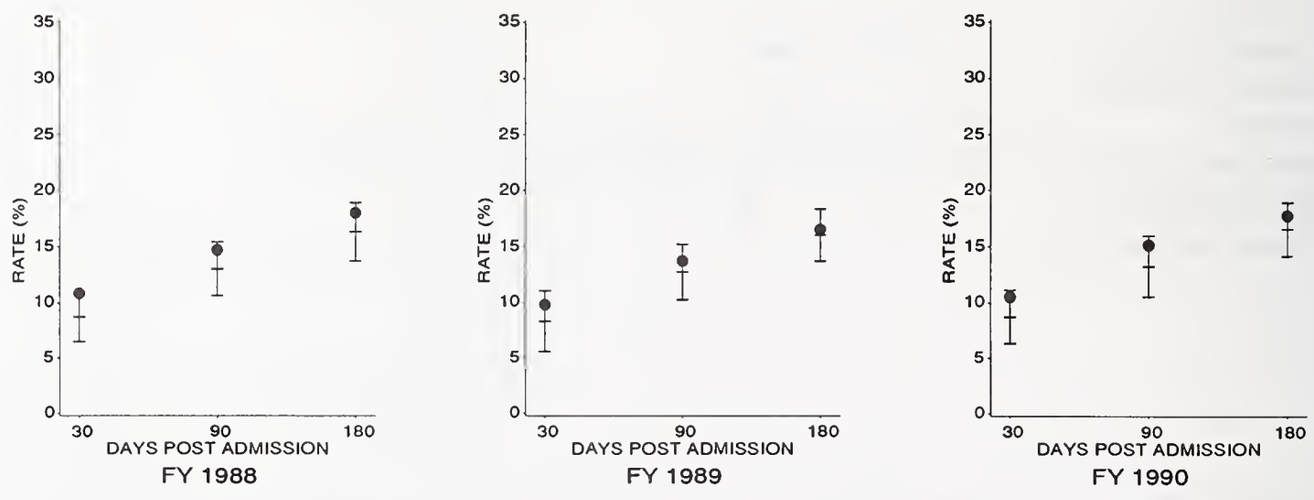
LAS AMERICAS AVE, BOX 1910
PONCE, PR 00731
Medicare Provider Number: 400003

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY | NUMBER OF CASES | MORTALITY RATES (%) 30 DAYS OBS | 30 DAYS PRED | 30 DAYS SD* | 90 DAYS OBS | 90 DAYS PRED | 90 DAYS SD* | 180 DAYS OBS | 180 DAYS PRED | 180 DAYS SD* |
|---|---|---|---|---|---|---|---|---|---|---|
| ALL CAUSES | 1291 | 10.5 | 8.7 | 1.2 | 15.1 | 13.2 | 1.4 | 17.7 | 16.5 | 1.2 |
| CONDITIONS: | | | | | | | | | | |
| Acute Myocardial Infarction | 34 | 29.4 | 26.5 | ----- | 32.4 | 30.0 | ----- | 32.4 | 32.6 | ----- |
| Congestive Heart Failure | 70 | 15.7 | 14.1 | 7.3 | 28.6 | 22.6 | 8.4 | 34.3 | 28.9 | 8.9 |
| Pneumonia/Influenza | 60 | 20.0 | 16.3 | 6.8 | 25.0 | 22.2 | 5.9 | 25.0 | 25.8 | 5.7 |
| Chronic Obstructive Pulmonary Disease | 9 | 11.1 | 7.4 | ----- | 22.2 | 12.6 | ----- | 22.2 | 16.6 | ----- |
| Transient Cerebral Ischemia | 40 | 0.0 | 1.5 | ----- | 0.0 | 3.4 | ----- | 0.0 | 5.6 | ----- |
| Stroke | 97 | 23.7 | 18.4 | 7.4 | 30.9 | 25.0 | 7.1 | 33.0 | 28.8 | 7.2 |
| Hip Fracture | 20 | 15.0 | 7.6 | ----- | 20.0 | 12.9 | ----- | 25.0 | 16.6 | ----- |
| Sepsis | 18 | 38.9 | 25.6 | ----- | 50.0 | 33.3 | ----- | 50.0 | 38.7 | ----- |
| PROCEDURES: | | | | | | | | | | |
| Angioplasty | 0 | | | | | | | | | |
| Coronary Artery Bypass Graft | 0 | | | | | | | | | |
| Initial Pacemaker Insertion | 3 | 0.0 | 1.8 | ----- | 0.0 | 3.5 | ----- | 0.0 | 4.9 | ----- |
| Carotid Endarterectomy | 0 | | | | | | | | | |
| Hip Replacement/Reconstruction | 7 | 28.6 | 8.9 | ----- | 28.6 | 14.9 | ----- | 42.9 | 18.3 | ----- |
| Open Reduction of Hip Fracture | 2 | 0.0 | 5.3 | ----- | 0.0 | 10.8 | ----- | 0.0 | 14.5 | ----- |
| Prostatectomy | 47 | 0.0 | 0.9 | ----- | 2.1 | 2.1 | ----- | 2.1 | 3.5 | ----- |
| Cholecystectomy | 24 | 0.0 | 2.9 | ----- | 0.0 | 5.4 | ----- | 0.0 | 7.4 | ----- |
| Hysterectomy | 5 | 0.0 | 0.2 | ----- | 0.0 | 0.4 | ----- | 0.0 | 0.8 | ----- |

* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# CLINICA DR PILA
Medicare Provider Number: 400003

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

DEMOGRAPHICS:

| | |
|---|---|
| Average age at admission | 75.2 years |
| Proportion female | 56.2 % |

ADMISSION SOURCES/TYPES:

| | |
|---|---|
| Referred by personal or HMO physician | 27.0 % |
| Transferred from skilled nursing facility | 0.0 % |
| Admitted for elective procedure | 8.1 % |
| Admitted for emergency | 6.9 % |

COMORBIDITIES:

| | |
|---|---|
| Cancer | 2.9 % |
| Chronic cardiovascular disease | 32.8 % |
| Chronic liver disease | 1.8 % |
| Chronic renal disease | 1.9 % |
| Chronic pulmonary disease | 17.8 % |
| Cerebrovascular degeneration | 1.4 % |
| Diabetes mellitus | 24.2 % |

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS*

ORIGIN OF MEDICARE PATIENT ADMISSION:

| | |
|---|---|
| County/City | 66.3% |
| State | 33.3% |
| Outside State | 0.4% |
| Total | 100.0% |

MEDICARE AVERAGE LENGTH OF STAY:

| | |
|---|---|
| Hospital | 6.8 Days |
| State | 7.2 Days |
| National | 8.6 Days |

## HOSPITAL CHARACTERISTICS*

SOURCE: Health Care Financing Administration (OSCAR)** - Survey Year 1988

PROFILE:

| | |
|---|---|
| Total Beds | 183 |
| Ownership.Control | Private, Non-Profit |
| Case Mix Index (CMI) | 1.1161 |

STAFFING:

| | |
|---|---|
| Medical Residents/Interns | 2 |
| Registered Nurses | 100 |
| Licensed Practical Nurses | 72 |

SPECIALTY SERVICES:

| | |
|---|---|
| Burn Unit | No |
| Coronary Care Unit | No |
| Hospice Care | No |
| Intensive Care Unit | Yes |
| Organ Transplant | No |
| Trauma Center | No |

OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

| | |
|---|---|
| Alcohol/Drug | No |
| Rehabilitation | Yes |
| Psychiatric | No |
| Medicare Swing Beds | No |

** Except for CMI

*** Not used in calculating mortality rates**

# CLINICA ESPANOLA INC

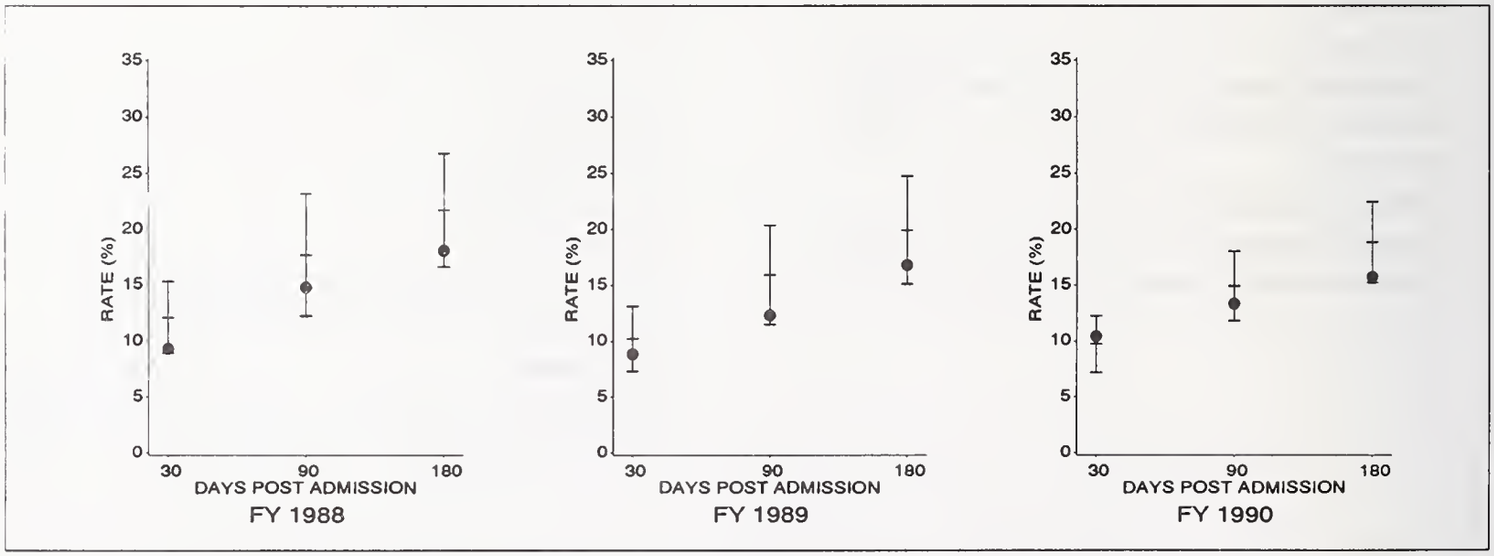
LA QUINTA, BOX 490
MAYAGUEZ, PR 00709
Medicare Provider Number: 400024

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY | NUMBER OF CASES | MORTALITY RATES (%) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 30 DAYS | | | 90 DAYS | | | 180 DAYS | | |
| | | OBS | PRED | SD* | OBS | PRED | SD* | OBS | PRED | SD* |
| ALL CAUSES | 549 | 10.4 | 9.7 | 1.3 | 13.3 | 14.9 | 1.6 | 15.7 | 18.8 | 1.8 |
| CONDITIONS: | | | | | | | | | | |
| Acute Myocardial Infarction | 9 | 22.2 | 27.3 | ----- | 22.2 | 31.0 | ----- | 22.2 | 34.1 | ----- |
| Congestive Heart Failure | 54 | 13.0 | 16.2 | 5.6 | 14.8 | 25.6 | 6.9 | 16.7 | 32.5 | 8.2 |
| Pneumonia/Influenza | 69 | 21.7 | 18.4 | 5.9 | 24.6 | 24.6 | 5.7 | 30.4 | 28.8 | 6.0 |
| Chronic Obstructive Pulmonary Disease | 2 | 0.0 | 10.0 | ----- | 50.0 | 19.7 | ----- | 50.0 | 26.1 | ----- |
| Transient Cerebral Ischemia | 11 | 0.0 | 3.8 | ----- | 0.0 | 8.8 | ----- | 0.0 | 14.0 | ----- |
| Stroke | 23 | 30.4 | 16.2 | ----- | 30.4 | 22.6 | ----- | 30.4 | 27.0 | ----- |
| Hip Fracture | 0 | | | | | | | | | |
| Sepsis | 2 | 0.0 | 12.5 | ----- | 0.0 | 15.6 | ----- | 0.0 | 17.9 | ----- |
| PROCEDURES: | | | | | | | | | | |
| Angioplasty | 0 | | | | | | | | | |
| Coronary Artery Bypass Graft | 0 | | | | | | | | | |
| Initial Pacemaker Insertion | 0 | | | | | | | | | |
| Carotid Endarterectomy | 0 | | | | | | | | | |
| Hip Replacement/Reconstruction | 0 | | | | | | | | | |
| Open Reduction of Hip Fracture | 0 | | | | | | | | | |
| Prostatectomy | 19 | 5.3 | 0.9 | ----- | 10.5 | 2.0 | ----- | 10.5 | 3.4 | ----- |
| Cholecystectomy | 10 | 10.0 | 4.3 | ----- | 10.0 | 8.9 | ----- | 10.0 | 12.2 | ----- |
| Hysterectomy | 10 | 0.0 | 0.1 | ----- | 0.0 | 0.4 | ----- | 0.0 | 0.7 | ----- |

* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# CLINICA ESPANOLA INC
Medicare Provider Number: 400024

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

DEMOGRAPHICS:

| | |
|---|---|
| Average age at admission | 77.9 years |
| Proportion female | 52.6 % |

ADMISSION SOURCES/TYPES:

| | |
|---|---|
| Referred by personal or HMO physician | 22.6 % |
| Transferred from skilled nursing facility | 0.0 % |
| Admitted for elective procedure | 12.6 % |
| Admitted for emergency | 29.7 % |

COMORBIDITIES:

| | |
|---|---|
| Cancer | 2.9 % |
| Chronic cardiovascular disease | 21.7 % |
| Chronic liver disease | 2.2 % |
| Chronic renal disease | 4.4 % |
| Chronic pulmonary disease | 10.6 % |
| Cerebrovascular degeneration | 4.0 % |
| Diabetes mellitus | 20.8 % |

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS*

ORIGIN OF MEDICARE PATIENT ADMISSION:

| | |
|---|---|
| County/City | 55.6% |
| State | 43.0% |
| Outside State | 1.4% |
| Total | 100.0% |

MEDICARE AVERAGE LENGTH OF STAY:

| | |
|---|---|
| Hospital | 5.8 Days |
| State | 7.2 Days |
| National | 8.6 Days |

## HOSPITAL CHARACTERISTICS*

SOURCE: Health Care Financing Administration (OSCAR)** - Survey Year 1991

PROFILE:

| | |
|---|---|
| Total Beds | 89 |
| Ownership/Control | Private, For Profit |
| Case Mix Index (CMI) | 1.0267 |

STAFFING:

| | |
|---|---|
| Medical Residents/Interns | 3 |
| Registered Nurses | 20 |
| Licensed Practical Nurses | 21 |

SPECIALTY SERVICES:

| | |
|---|---|
| Burn Unit | No |
| Coronary Care Unit | No |
| Hospice Care | No |
| Intensive Care Unit | Yes |
| Organ Transplant | No |
| Trauma Center | No |

OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

| | |
|---|---|
| Alcohol/Drug | No |
| Rehabilitation | Yes |
| Psychiatric | No |
| Medicare Swing Beds | No |

** Except for CMI

*** Not used in calculating mortality rates**

# CLINICA ONCOLOGICA

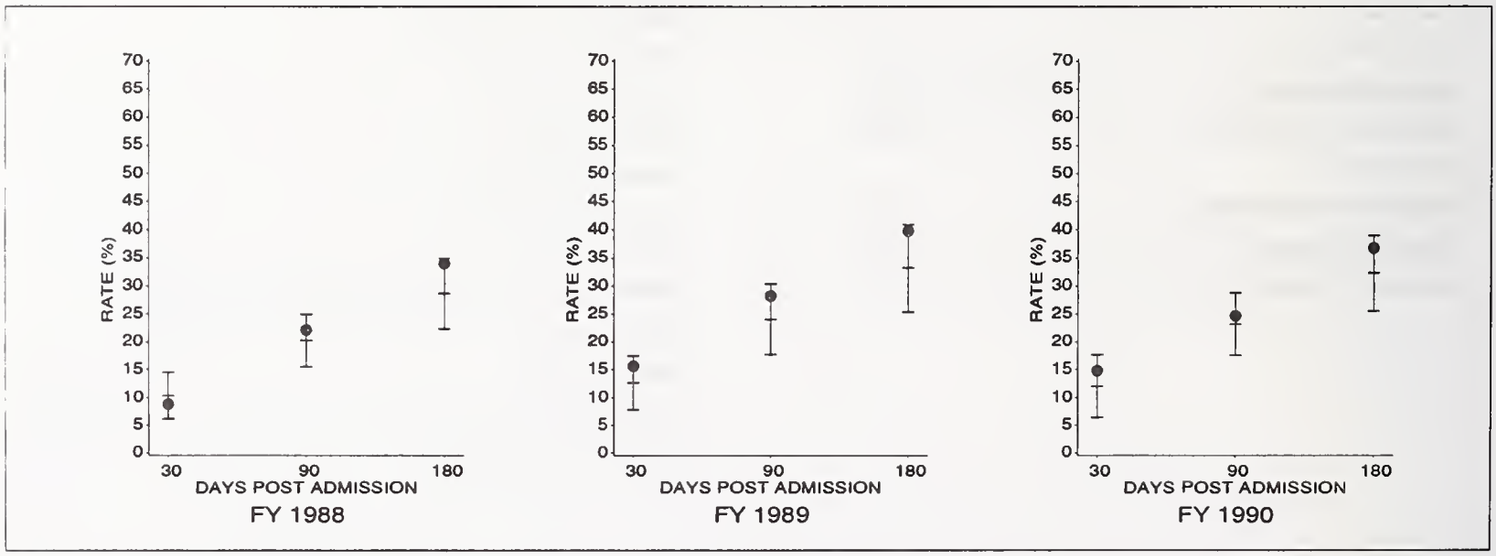
BOX 1324
PONCE, PR 00731
Medicare Provider Number: 400028

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY | NUMBER OF CASES | MORTALITY RATES (%) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 30 DAYS | | | 90 DAYS | | | 180 DAYS | | |
| | | OBS | PRED | SD* | OBS | PRED | SD* | OBS | PRED | SD* |
| ALL CAUSES | 305 | 14.8 | 12.0 | 2.8 | 24.6 | 23.1 | 2.8 | 36.7 | 32.2 | 3.4 |
| CONDITIONS: | | | | | | | | | | |
| Acute Myocardial Infarction | 0 | | | | | | | | | |
| Congestive Heart Failure | 1 | 0.0 | 8.4 | ----- | 0.0 | 13.8 | ----- | 0.0 | 20.3 | ----- |
| Pneumonia/Influenza | 5 | 40.0 | 25.6 | ----- | 40.0 | 36.3 | ----- | 60.0 | 42.7 | ----- |
| Chronic Obstructive Pulmonary Disease | 1 | 100.0 | 24.5 | ----- | 100.0 | 41.9 | ----- | 100.0 | 55.0 | ----- |
| Transient Cerebral Ischemia | 0 | | | | | | | | | |
| Stroke | 0 | | | | | | | | | |
| Hip Fracture | 0 | | | | | | | | | |
| Sepsis | 1 | 100.0 | 66.2 | ----- | 100.0 | 80.5 | ----- | 100.0 | 84.7 | ----- |
| PROCEDURES: | | | | | | | | | | |
| Angioplasty | 0 | | | | | | | | | |
| Coronary Artery Bypass Graft | 0 | | | | | | | | | |
| Initial Pacemaker Insertion | 0 | | | | | | | | | |
| Carotid Endarterectomy | 0 | | | | | | | | | |
| Hip Replacement/Reconstruction | 0 | | | | | | | | | |
| Open Reduction of Hip Fracture | 0 | | | | | | | | | |
| Prostatectomy | 12 | 0.0 | 1.1 | ----- | 0.0 | 2.3 | ----- | 0.0 | 4.0 | ----- |
| Cholecystectomy | 3 | 33.3 | 3.0 | ----- | 33.3 | 6.3 | ----- | 33.3 | 8.8 | ----- |
| Hysterectomy | 2 | 0.0 | 0.2 | ----- | 0.0 | 0.5 | ----- | 0.0 | 0.9 | ----- |

* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# CLINICA ONCOLOGICA
Medicare Provider Number: 400028

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

DEMOGRAPHICS:

| | |
|---|---|
| Average age at admission | 72.5 years |
| Proportion female | 40.7 % |

ADMISSION SOURCES/TYPES:

| | |
|---|---|
| Referred by personal or HMO physician | 5.9 % |
| Transferred from skilled nursing facility | 0.0 % |
| Admitted for elective procedure | 29.2 % |
| Admitted for emergency | 0.3 % |

COMORBIDITIES:

| | |
|---|---|
| Cancer | 53.4 % |
| Chronic cardiovascular disease | 31.5 % |
| Chronic liver disease | 0.3 % |
| Chronic renal disease | 1.6 % |
| Chronic pulmonary disease | 13.4 % |
| Cerebrovascular degeneration | 0.3 % |
| Diabetes mellitus | 10.2 % |

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS*

ORIGIN OF MEDICARE PATIENT ADMISSION:

| | |
|---|---|
| County/City | 27.2% |
| State | 72.5% |
| Outside State | 0.3% |
| Total | 100.0% |

MEDICARE AVERAGE LENGTH OF STAY:

| | |
|---|---|
| Hospital | 7.9 Days |
| State | 7.2 Days |
| National | 8.6 Days |

## HOSPITAL CHARACTERISTICS*

SOURCE: Health Care Financing Administration (OSCAR)** - Survey Year 1988

PROFILE:

| | |
|---|---|
| Total Beds | 86 |
| Ownership.Control | Private, Non-Profit |
| Case Mix Index (CMI) | 1.0310 |

STAFFING:

| | |
|---|---|
| Medical Residents/Interns | 15 |
| Registered Nurses | 43 |
| Licensed Practical Nurses | 11 |

SPECIALTY SERVICES:

| | |
|---|---|
| Burn Unit | No |
| Coronary Care Unit | No |
| Hospice Care | Yes |
| Intensive Care Unit | Yes |
| Organ Transplant | No |
| Trauma Center | No |

OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

| | |
|---|---|
| Alcohol/Drug | No |
| Rehabilitation | Yes |
| Psychiatric | No |
| Medicare Swing Beds | No |

** Except for CMI

*** Not used in calculating mortality rates**

# DE DIEGO HOSPITAL

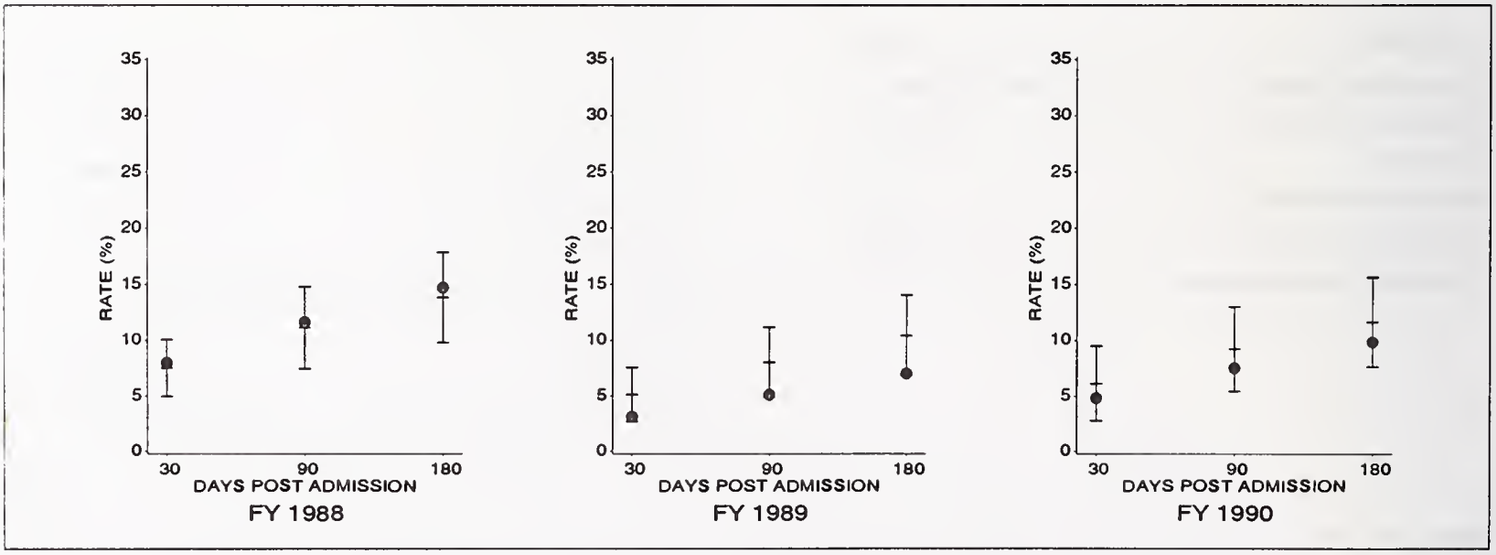
P O BOX 11278
SANTURCE, PR 00910
Medicare Provider Number: 400008

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY | NUMBER OF CASES | MORTALITY RATES (%) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 30 DAYS | | | 90 DAYS | | | 180 DAYS | | |
| | | OBS | PRED | SD* | OBS | PRED | SD* | OBS | PRED | SD* |
| ALL CAUSES | 521 | 4.8 | 6.1 | 1.7 | 7.5 | 9.2 | 1.9 | 9.8 | 11.6 | 2.0 |
| CONDITIONS: | | | | | | | | | | |
| Acute Myocardial Infarction | 17 | 29.4 | 28.3 | ----- | 29.4 | 31.6 | ----- | 29.4 | 34.7 | ----- |
| Congestive Heart Failure | 26 | 11.5 | 10.8 | ----- | 15.4 | 17.6 | ----- | 19.2 | 23.1 | ----- |
| Pneumonia/Influenza | 5 | 0.0 | 13.4 | ----- | 0.0 | 18.2 | ----- | 0.0 | 21.2 | ----- |
| Chronic Obstructive Pulmonary Disease | 6 | 0.0 | 6.7 | ----- | 0.0 | 12.7 | ----- | 16.7 | 17.5 | ----- |
| Transient Cerebral Ischemia | 3 | 0.0 | 1.1 | ----- | 0.0 | 2.8 | ----- | 0.0 | 4.9 | ----- |
| Stroke | 15 | 6.7 | 18.2 | ----- | 6.7 | 24.4 | ----- | 6.7 | 28.0 | ----- |
| Hip Fracture | 2 | 50.0 | 14.1 | ----- | 50.0 | 22.1 | ----- | 50.0 | 25.8 | ----- |
| Sepsis | 7 | 42.9 | 27.3 | ----- | 42.9 | 35.9 | ----- | 42.9 | 41.2 | ----- |
| PROCEDURES: | | | | | | | | | | |
| Angioplasty | 0 | | | | | | | | | |
| Coronary Artery Bypass Graft | 0 | | | | | | | | | |
| Initial Pacemaker Insertion | 0 | | | | | | | | | |
| Carotid Endarterectomy | 0 | | | | | | | | | |
| Hip Replacement/Reconstruction | 1 | 0.0 | 7.1 | ----- | 0.0 | 11.1 | ----- | 0.0 | 13.2 | ----- |
| Open Reduction of Hip Fracture | 0 | | | | | | | | | |
| Prostatectomy | 58 | 0.0 | 0.6 | ----- | 0.0 | 1.4 | ----- | 0.0 | 2.5 | ----- |
| Cholecystectomy | 17 | 0.0 | 1.1 | ----- | 0.0 | 2.1 | ----- | 5.9 | 2.9 | ----- |
| Hysterectomy | 23 | 0.0 | 0.1 | ----- | 0.0 | 0.4 | ----- | 0.0 | 0.7 | ----- |

* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# DE DIEGO HOSPITAL
Medicare Provider Number: 400008

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

DEMOGRAPHICS:

| | |
|---|---|
| Average age at admission | 72.3 years |
| Proportion female | 57.8 % |

ADMISSION SOURCES/TYPES:

| | |
|---|---|
| Referred by personal or HMO physician | 60.7 % |
| Transferred from skilled nursing facility | 0.0 % |
| Admitted for elective procedure | 40.3 % |
| Admitted for emergency | 23.8 % |

COMORBIDITIES:

| | |
|---|---|
| Cancer | 2.7 % |
| Chronic cardiovascular disease | 32.8 % |
| Chronic liver disease | 3.1 % |
| Chronic renal disease | 2.3 % |
| Chronic pulmonary disease | 13.8 % |
| Cerebrovascular degeneration | 2.1 % |
| Diabetes mellitus | 22.3 % |

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS*

ORIGIN OF MEDICARE PATIENT ADMISSION:

| | |
|---|---|
| County/City | 51.1% |
| State | 47.3% |
| Outside State | 1.6% |
| Total | 100.0% |

MEDICARE AVERAGE LENGTH OF STAY:

| | |
|---|---|
| Hospital | 7.8 Days |
| State | 7.2 Days |
| National | 8.6 Days |

## HOSPITAL CHARACTERISTICS*

SOURCE: Health Care Financing Administration (OSCAR)** - Survey Year 1991

PROFILE:

| | |
|---|---|
| Total Beds | 202 |
| Ownership/Control | Private, For Profit |
| Case Mix Index (CMI) | 1.1050 |

STAFFING:

| | |
|---|---|
| Medical Residents/Interns | 8 |
| Registered Nurses | 44 |
| Licensed Practical Nurses | 0 |

SPECIALTY SERVICES:

| | |
|---|---|
| Burn Unit | No |
| Coronary Care Unit | No |
| Hospice Care | No |
| Intensive Care Unit | Yes |
| Organ Transplant | No |
| Trauma Center | No |

OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

| | |
|---|---|
| Alcohol/Drug | No |
| Rehabilitation | Yes |
| Psychiatric | No |
| Medicare Swing Beds | No |

** Except for CMI

*** Not used in calculating mortality rates**

# DEL MAESTRO HOSPITAL

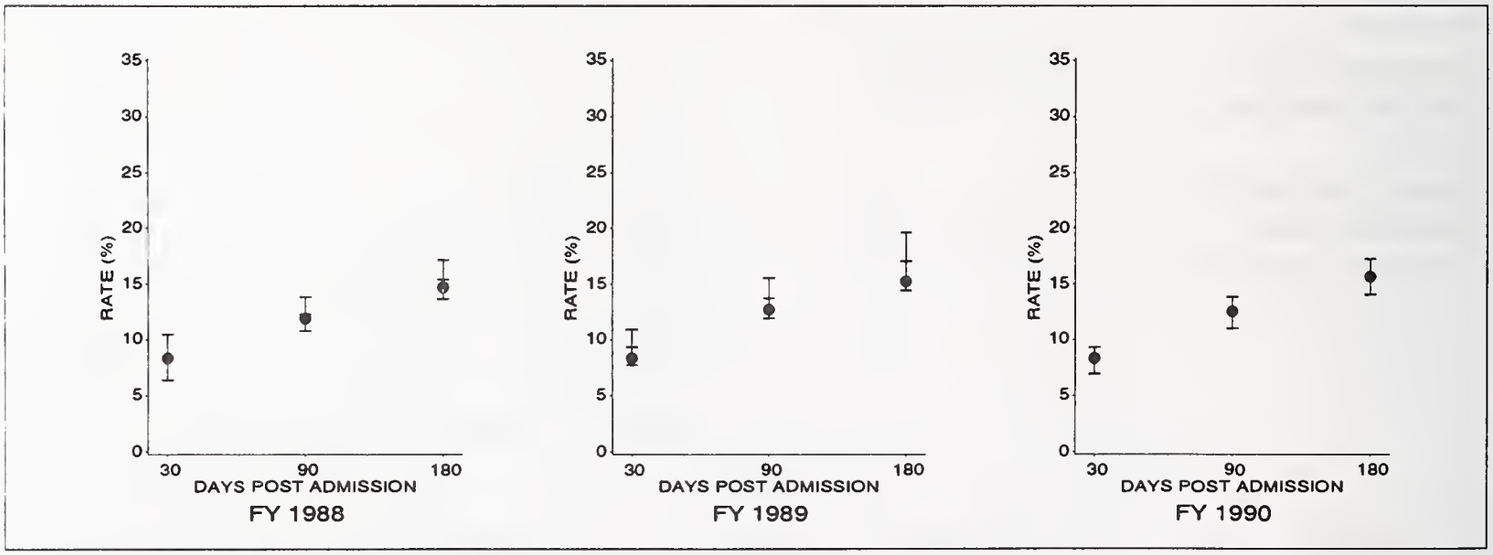
SERGIO CUEVAS BUSTAMANTE ST
HATO REY, PR 00919
Medicare Provider Number: 400004

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY | NUMBER OF CASES | MORTALITY RATES (%) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 30 DAYS | | | 90 DAYS | | | 180 DAYS | | |
| | | OBS | PRED | SD* | OBS | PRED | SD* | OBS | PRED | SD* |
| ALL CAUSES | 2174 | 8.3 | 8.1 | 0.6 | 12.5 | 12.4 | 0.7 | 15.6 | 15.6 | 0.8 |
| CONDITIONS: | | | | | | | | | | |
| Acute Myocardial Infarction | 46 | 37.0 | 28.7 | ----- | 41.3 | 32.0 | ----- | 43.5 | 34.7 | ----- |
| Congestive Heart Failure | 95 | 14.7 | 13.4 | 4.4 | 21.1 | 21.4 | 4.4 | 24.2 | 27.7 | 5.3 |
| Pneumonia/Influenza | 94 | 21.3 | 17.3 | 5.3 | 26.6 | 22.8 | 6.0 | 30.9 | 26.1 | 6.0 |
| Chronic Obstructive Pulmonary Disease | 14 | 0.0 | 10.3 | ----- | 0.0 | 17.8 | ----- | 7.1 | 23.1 | ----- |
| Transient Cerebral Ischemia | 29 | 6.9 | 1.7 | ----- | 6.9 | 3.8 | ----- | 10.3 | 6.2 | ----- |
| Stroke | 85 | 23.5 | 18.9 | 7.1 | 34.1 | 26.1 | 9.2 | 36.5 | 30.0 | 9.3 |
| Hip Fracture | 53 | 3.8 | 6.6 | 4.2 | 11.3 | 11.3 | 4.5 | 15.1 | 14.5 | 5.2 |
| Sepsis | 25 | 16.0 | 27.0 | ----- | 28.0 | 33.8 | ----- | 28.0 | 37.5 | ----- |
| PROCEDURES: | | | | | | | | | | |
| Angioplasty | 0 | | | | | | | | | |
| Coronary Artery Bypass Graft | 0 | | | | | | | | | |
| Initial Pacemaker Insertion | 23 | 0.0 | 2.9 | ----- | 4.3 | 5.7 | ----- | 4.3 | 8.1 | ----- |
| Carotid Endarterectomy | 0 | | | | | | | | | |
| Hip Replacement/Reconstruction | 20 | 0.0 | 5.2 | ----- | 10.0 | 9.2 | ----- | 15.0 | 11.9 | ----- |
| Open Reduction of Hip Fracture | 28 | 7.1 | 6.2 | ----- | 10.7 | 11.1 | ----- | 14.3 | 14.6 | ----- |
| Prostatectomy | 132 | 0.0 | 0.7 | 1.0 | 3.0 | 1.6 | 1.6 | 3.0 | 2.7 | 1.8 |
| Cholecystectomy | 69 | 4.3 | 2.5 | 3.1 | 4.3 | 4.5 | 4.0 | 7.2 | 6.0 | 3.7 |
| Hysterectomy | 33 | 0.0 | 0.2 | ----- | 0.0 | 0.4 | ----- | 0.0 | 0.8 | ----- |

* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# DEL MAESTRO HOSPITAL
Medicare Provider Number: 400004

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

DEMOGRAPHICS:

| | |
|---|---|
| Average age at admission | 74.7 years |
| Proportion female | 60.9 % |

ADMISSION SOURCES/TYPES:

| | |
|---|---|
| Referred by personal or HMO physician | 41.2 % |
| Transferred from skilled nursing facility | 0.0 % |
| Admitted for elective procedure | 27.1 % |
| Admitted for emergency | 58.0 % |

COMORBIDITIES:

| | |
|---|---|
| Cancer | 7.6 % |
| Chronic cardiovascular disease | 38.5 % |
| Chronic liver disease | 1.3 % |
| Chronic renal disease | 1.1 % |
| Chronic pulmonary disease | 14.8 % |
| Cerebrovascular degeneration | 1.0 % |
| Diabetes mellitus | 16.4 % |

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS*

ORIGIN OF MEDICARE PATIENT ADMISSION:

| | |
|---|---|
| County/City | 55.2% |
| State | 43.7% |
| Outside State | 1.1% |
| Total | 100.0% |

MEDICARE AVERAGE LENGTH OF STAY:

| | |
|---|---|
| Hospital | 8.7 Days |
| State | 7.2 Days |
| National | 8.6 Days |

## HOSPITAL CHARACTERISTICS*

SOURCE: Health Care Financing Administration (OSCAR)** - Survey Year 1990

PROFILE:

| | |
|---|---|
| Total Beds | 327 |
| Ownership.Control | Private, Non-Profit |
| Case Mix Index (CMI) | 1.1473 |

STAFFING:

| | |
|---|---|
| Medical Residents/Interns | 0 |
| Registered Nurses | 84 |
| Licensed Practical Nurses | 66 |

SPECIALTY SERVICES:

| | |
|---|---|
| Burn Unit | No |
| Coronary Care Unit | Yes |
| Hospice Care | No |
| Intensive Care Unit | Yes |
| Organ Transplant | No |
| Trauma Center | No |

OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

| | |
|---|---|
| Alcohol/Drug | No |
| Rehabilitation | No |
| Psychiatric | No |
| Medicare Swing Beds | No |

** Except for CMI

*** Not used in calculating mortality rates**

# DOCTORS CENTER HOSPITAL

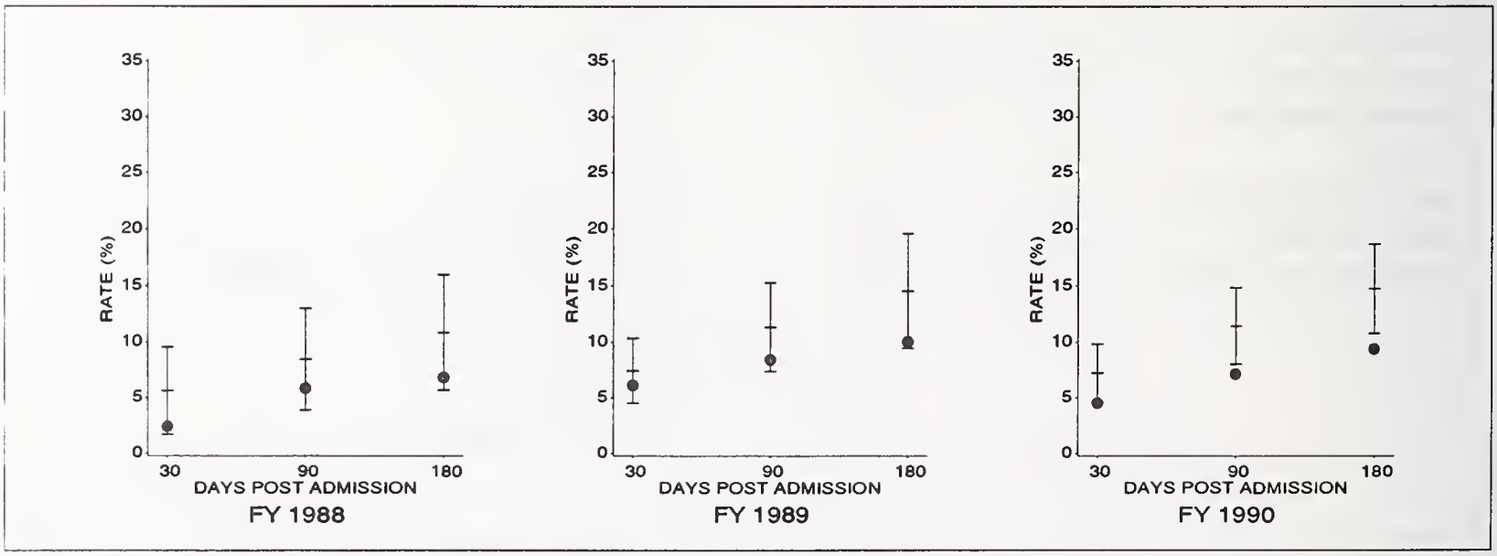
PO BOX 532
MANATI, PR 00701
Medicare Provider Number: 400118

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY | NUMBER OF CASES | MORTALITY RATES (%) 30 DAYS OBS | 30 DAYS PRED | 30 DAYS SD* | 90 DAYS OBS | 90 DAYS PRED | 90 DAYS SD* | 180 DAYS OBS | 180 DAYS PRED | 180 DAYS SD* |
|---|---|---|---|---|---|---|---|---|---|---|
| ALL CAUSES | 532 | 4.5 | 7.2 | 1.3 | 7.1 | 11.4 | 1.7 | 9.4 | 14.7 | 2.0 |
| CONDITIONS: | | | | | | | | | | |
| Acute Myocardial Infarction | 8 | 12.5 | 26.4 | ----- | 25.0 | 29.5 | ----- | 25.0 | 33.0 | ----- |
| Congestive Heart Failure | 25 | 16.0 | 13.9 | ----- | 24.0 | 23.9 | ----- | 28.0 | 30.4 | ----- |
| Pneumonia/Influenza | 50 | 12.0 | 13.6 | ----- | 14.0 | 18.4 | ----- | 16.0 | 21.6 | ----- |
| Chronic Obstructive Pulmonary Disease | 9 | 0.0 | 6.8 | ----- | 11.1 | 13.2 | ----- | 11.1 | 18.7 | ----- |
| Transient Cerebral Ischemia | 5 | 0.0 | 1.2 | ----- | 0.0 | 2.8 | ----- | 0.0 | 4.8 | ----- |
| Stroke | 8 | 25.0 | 25.6 | ----- | 37.5 | 34.7 | ----- | 37.5 | 40.4 | ----- |
| Hip Fracture | 5 | 0.0 | 3.4 | ----- | 0.0 | 6.1 | ----- | 0.0 | 8.1 | ----- |
| Sepsis | 2 | 50.0 | 27.9 | ----- | 50.0 | 32.7 | ----- | 50.0 | 36.6 | ----- |
| PROCEDURES: | | | | | | | | | | |
| Angioplasty | 0 | | | | | | | | | |
| Coronary Artery Bypass Graft | 0 | | | | | | | | | |
| Initial Pacemaker Insertion | 0 | | | | | | | | | |
| Carotid Endarterectomy | 0 | | | | | | | | | |
| Hip Replacement/Reconstruction | 3 | 0.0 | 10.5 | ----- | 0.0 | 14.0 | ----- | 0.0 | 16.4 | ----- |
| Open Reduction of Hip Fracture | 3 | 0.0 | 3.7 | ----- | 0.0 | 7.0 | ----- | 0.0 | 9.4 | ----- |
| Prostatectomy | 9 | 0.0 | 0.8 | ----- | 0.0 | 1.7 | ----- | 0.0 | 2.7 | ----- |
| Cholecystectomy | 20 | 0.0 | 1.6 | ----- | 0.0 | 2.9 | ----- | 0.0 | 4.0 | ----- |
| Hysterectomy | 5 | 0.0 | 0.1 | ----- | 0.0 | 0.2 | ----- | 0.0 | 0.3 | ----- |

* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# DOCTORS CENTER HOSPITAL
Medicare Provider Number: 400118

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

DEMOGRAPHICS:

| | |
|---|---|
| Average age at admission | 70.1 years |
| Proportion female | 55.5 % |

ADMISSION SOURCES/TYPES:

| | |
|---|---|
| Referred by personal or HMO physician | 49.4 % |
| Transferred from skilled nursing facility | 0.2 % |
| Admitted for elective procedure | 18.6 % |
| Admitted for emergency | 69.7 % |

COMORBIDITIES:

| | |
|---|---|
| Cancer | 0.9 % |
| Chronic cardiovascular disease | 20.3 % |
| Chronic liver disease | 0.6 % |
| Chronic renal disease | 19.7 % |
| Chronic pulmonary disease | 16.9 % |
| Cerebrovascular degeneration | 0.4 % |
| Diabetes mellitus | 27.8 % |

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS*

ORIGIN OF MEDICARE PATIENT ADMISSION:

| | |
|---|---|
| County/City | 25.7% |
| State | 73.1% |
| Outside State | 1.2% |
| Total | 100.0% |

MEDICARE AVERAGE LENGTH OF STAY:

| | |
|---|---|
| Hospital | 5.5 Days |
| State | 7.2 Days |
| National | 8.6 Days |

## HOSPITAL CHARACTERISTICS*

SOURCE: Health Care Financing Administration (OSCAR)** - Survey Year 1991

PROFILE:

| | |
|---|---|
| Total Beds | 112 |
| Ownership/Control | Private, For Profit |
| Case Mix Index (CMI) | 1.1952 |

STAFFING:

| | |
|---|---|
| Medical Residents/Interns | 4 |
| Registered Nurses | 74 |
| Licensed Practical Nurses | 50 |

SPECIALTY SERVICES:

| | |
|---|---|
| Burn Unit | No |
| Coronary Care Unit | No |
| Hospice Care | No |
| Intensive Care Unit | Yes |
| Organ Transplant | No |
| Trauma Center | No |

OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

| | |
|---|---|
| Alcohol/Drug | No |
| Rehabilitation | No |
| Psychiatric | No |
| Medicare Swing Beds | No |

** Except for CMI

*** Not used in calculating mortality rates**

# DOCTORS HOSPITAL

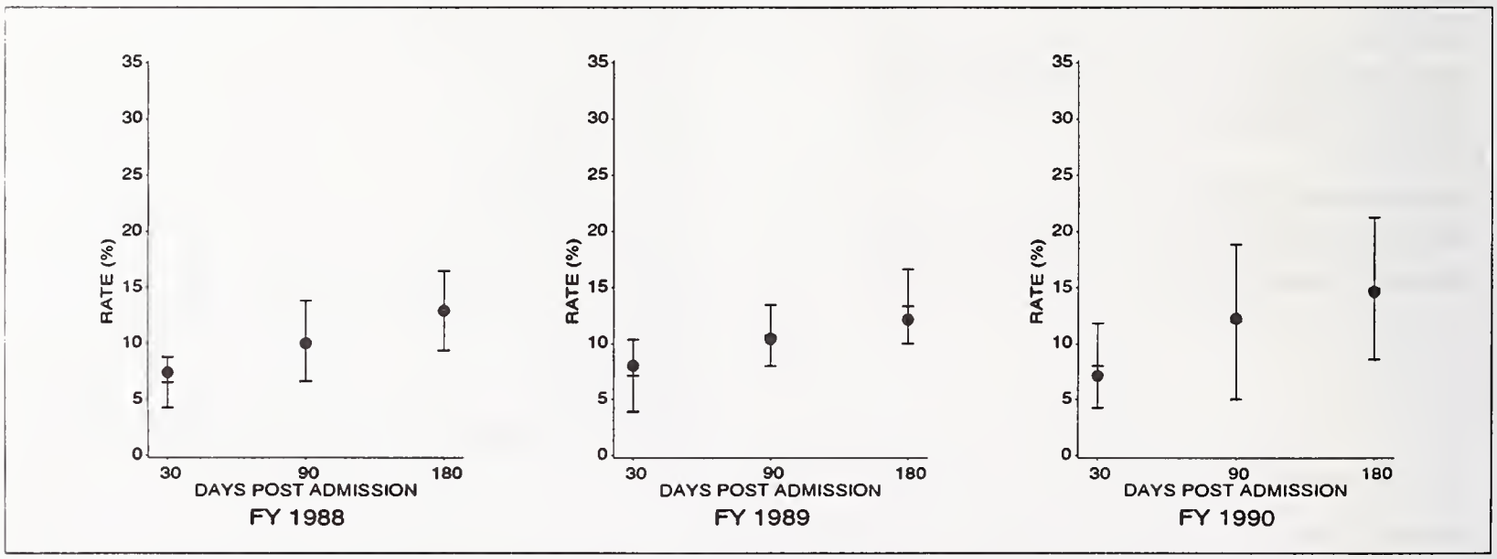
P O BOX 11338
SANTURCE, PR 00910
Medicare Provider Number: 400006

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY | NUMBER OF CASES | MORTALITY RATES (%) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 30 DAYS | | | 90 DAYS | | | 180 DAYS | | |
| | | OBS | PRED | SD* | OBS | PRED | SD* | OBS | PRED | SD* |
| ALL CAUSES | 452 | 7.1 | 8.0 | 1.9 | 12.2 | 11.9 | 3.5 | 14.6 | 14.9 | 3.2 |
| CONDITIONS: | | | | | | | | | | |
| Acute Myocardial Infarction | 12 | 16.7 | 37.5 | ----- | 25.0 | 42.0 | ----- | 41.7 | 45.3 | ----- |
| Congestive Heart Failure | 14 | 21.4 | 11.7 | ----- | 21.4 | 18.7 | ----- | 28.6 | 24.1 | ----- |
| Pneumonia/Influenza | 16 | 12.5 | 15.1 | ----- | 25.0 | 20.1 | ----- | 31.3 | 24.1 | ----- |
| Chronic Obstructive Pulmonary Disease | 0 | | | | | | | | | |
| Transient Cerebral Ischemia | 7 | 0.0 | 2.5 | ----- | 0.0 | 5.8 | ----- | 0.0 | 9.0 | ----- |
| Stroke | 13 | 7.7 | 13.4 | ----- | 7.7 | 19.0 | ----- | 7.7 | 22.1 | ----- |
| Hip Fracture | 0 | | | | | | | | | |
| Sepsis | 7 | 71.4 | 38.1 | ----- | 85.7 | 44.1 | ----- | 100.0 | 49.1 | ----- |
| PROCEDURES: | | | | | | | | | | |
| Angioplasty | 0 | | | | | | | | | |
| Coronary Artery Bypass Graft | 0 | | | | | | | | | |
| Initial Pacemaker Insertion | 0 | | | | | | | | | |
| Carotid Endarterectomy | 0 | | | | | | | | | |
| Hip Replacement/Reconstruction | 0 | | | | | | | | | |
| Open Reduction of Hip Fracture | 0 | | | | | | | | | |
| Prostatectomy | 17 | 0.0 | 0.4 | ----- | 0.0 | 0.9 | ----- | 0.0 | 1.7 | ----- |
| Cholecystectomy | 12 | 8.3 | 1.4 | ----- | 16.7 | 2.6 | ----- | 16.7 | 3.6 | ----- |
| Hysterectomy | 8 | 0.0 | 0.3 | ----- | 0.0 | 0.6 | ----- | 0.0 | 1.0 | ----- |

* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# DOCTORS HOSPITAL
Medicare Provider Number: 400006

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

DEMOGRAPHICS:

| | |
|---|---|
| Average age at admission | 74.0 years |
| Proportion female | 60.5 % |

ADMISSION SOURCES/TYPES:

| | |
|---|---|
| Referred by personal or HMO physician | 43.9 % |
| Transferred from skilled nursing facility | 0.0 % |
| Admitted for elective procedure | 14.3 % |
| Admitted for emergency | 57.6 % |

COMORBIDITIES:

| | |
|---|---|
| Cancer | 5.5 % |
| Chronic cardiovascular disease | 38.2 % |
| Chronic liver disease | 1.1 % |
| Chronic renal disease | 1.5 % |
| Chronic pulmonary disease | 6.0 % |
| Cerebrovascular degeneration | 1.3 % |
| Diabetes mellitus | 24.5 % |

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS*

ORIGIN OF MEDICARE PATIENT ADMISSION:

| | |
|---|---|
| County/City | 57.7% |
| State | 40.6% |
| Outside State | 1.7% |
| Total | 100.0% |

MEDICARE AVERAGE LENGTH OF STAY:

| | |
|---|---|
| Hospital | 6.4 Days |
| State | 7.2 Days |
| National | 8.6 Days |

## HOSPITAL CHARACTERISTICS*

SOURCE: Health Care Financing Administration (OSCAR)** - Survey Year 1990

PROFILE:

| | |
|---|---|
| Total Beds | 160 |
| Ownership/Control | Private, For Profit |
| Case Mix Index (CMI) | 1.1784 |

STAFFING:

| | |
|---|---|
| Medical Residents/Interns | 1 |
| Registered Nurses | 30 |
| Licensed Practical Nurses | 53 |

SPECIALTY SERVICES:

| | |
|---|---|
| Burn Unit | No |
| Coronary Care Unit | Yes |
| Hospice Care | No |
| Intensive Care Unit | Yes |
| Organ Transplant | No |
| Trauma Center | No |

OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

| | |
|---|---|
| Alcohol/Drug | No |
| Rehabilitation | No |
| Psychiatric | No |
| Medicare Swing Beds | No |

** Except for CMI

*** Not used in calculating mortality rates**

# DR ALEJANDRO OTERO LOPEZ HOSPITAL

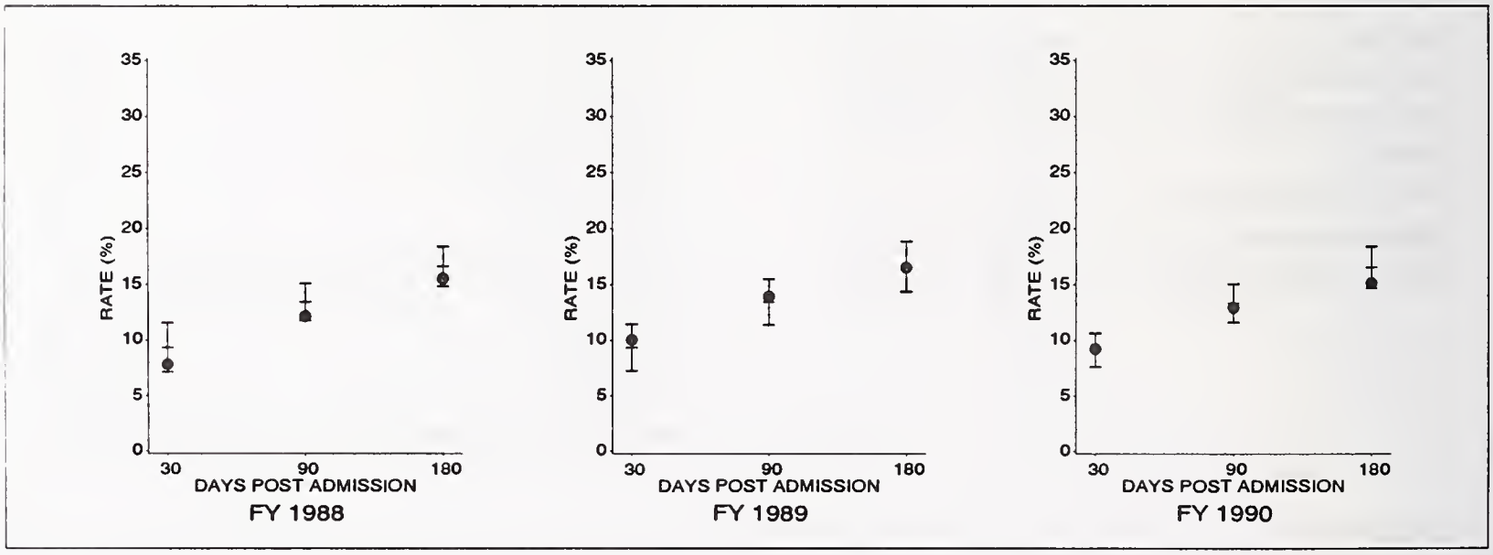
STATE RD 668 HDEZ CARRION ST
URB ATENAS MANATI, PR 00701
Medicare Provider Number: 400114

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY | NUMBER OF CASES | MORTALITY RATES (%) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 30 DAYS | | | 90 DAYS | | | 180 DAYS | | |
| | | OBS | PRED | SD* | OBS | PRED | SD* | OBS | PRED | SD* |
| ALL CAUSES | 2055 | 9.2 | 9.1 | 0.8 | 12.9 | 13.3 | 0.9 | 15.1 | 16.5 | 0.9 |
| CONDITIONS: | | | | | | | | | | |
| Acute Myocardial Infarction | 66 | 33.3 | 28.4 | 9.8 | 36.4 | 30.8 | 9.3 | 36.4 | 33.2 | 8.0 |
| Congestive Heart Failure | 147 | 13.6 | 15.1 | 3.3 | 19.0 | 24.2 | 5.0 | 26.5 | 31.0 | 5.0 |
| Pneumonia/Influenza | 97 | 18.6 | 17.4 | 4.2 | 25.8 | 23.4 | 4.7 | 28.9 | 27.1 | 4.8 |
| Chronic Obstructive Pulmonary Disease | 21 | 9.5 | 10.7 | ----- | 14.3 | 18.5 | ----- | 14.3 | 23.5 | ----- |
| Transient Cerebral Ischemia | 36 | 2.8 | 1.6 | ----- | 2.8 | 3.6 | ----- | 2.8 | 5.9 | ----- |
| Stroke | 82 | 22.0 | 23.1 | 7.6 | 23.2 | 29.1 | 7.9 | 30.5 | 32.8 | 8.2 |
| Hip Fracture | 0 | | | | | | | | | |
| Sepsis | 38 | 39.5 | 34.5 | ----- | 52.6 | 41.0 | ----- | 52.6 | 45.6 | ----- |
| PROCEDURES: | | | | | | | | | | |
| Angioplasty | 0 | | | | | | | | | |
| Coronary Artery Bypass Graft | 0 | | | | | | | | | |
| Initial Pacemaker Insertion | 16 | 0.0 | 2.9 | ----- | 0.0 | 6.2 | ----- | 6.3 | 9.5 | ----- |
| Carotid Endarterectomy | 0 | | | | | | | | | |
| Hip Replacement/Reconstruction | 1 | 0.0 | 2.6 | ----- | 0.0 | 6.1 | ----- | 0.0 | 9.3 | ----- |
| Open Reduction of Hip Fracture | 0 | | | | | | | | | |
| Prostatectomy | 54 | 0.0 | 1.0 | 1.6 | 0.0 | 2.2 | 2.8 | 1.9 | 3.8 | 3.1 |
| Cholecystectomy | 35 | 0.0 | 2.3 | ----- | 0.0 | 4.7 | ----- | 0.0 | 6.8 | ----- |
| Hysterectomy | 14 | 7.1 | 0.2 | ----- | 7.1 | 0.4 | ----- | 14.3 | 0.7 | ----- |

* The Standard Deviation (SD) Is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# DR ALEJANDRO OTERO LOPEZ HOSPITAL

Medicare Provider Number: 400114

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

DEMOGRAPHICS:

| | |
|---|---|
| Average age at admission | 73.0 years |
| Proportion female | 49.5 % |

ADMISSION SOURCES/TYPES:

| | |
|---|---|
| Referred by personal or HMO physician | 16.4 % |
| Transferred from skilled nursing facility | 0.0 % |
| Admitted for elective procedure | 11.6 % |
| Admitted for emergency | 86.7 % |

COMORBIDITIES:

| | |
|---|---|
| Cancer | 2.0 % |
| Chronic cardiovascular disease | 44.7 % |
| Chronic liver disease | 0.9 % |
| Chronic renal disease | 1.9 % |
| Chronic pulmonary disease | 18.8 % |
| Cerebrovascular degeneration | 1.9 % |
| Diabetes mellitus | 21.5 % |

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS*

ORIGIN OF MEDICARE PATIENT ADMISSION:

| | |
|---|---|
| County/City | 28.4% |
| State | 70.2% |
| Outside State | 1.4% |
| Total | 100.0% |

MEDICARE AVERAGE LENGTH OF STAY:

| | |
|---|---|
| Hospital | 6.4 Days |
| State | 7.2 Days |
| National | 8.6 Days |

## HOSPITAL CHARACTERISTICS*

SOURCE: Health Care Financing Administration (OSCAR)** - Survey Year 1990

PROFILE:

| | |
|---|---|
| Total Beds | 156 |
| Ownership.Control | Private, Non-Profit |
| Case Mix Index (CMI) | 1.0307 |

STAFFING:

| | |
|---|---|
| Medical Residents/Interns | 50 |
| Registered Nurses | 123 |
| Licensed Practical Nurses | 96 |

SPECIALTY SERVICES:

| | |
|---|---|
| Burn Unit | No |
| Coronary Care Unit | No |
| Hospice Care | No |
| Intensive Care Unit | Yes |
| Organ Transplant | No |
| Trauma Center | No |

OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

| | |
|---|---|
| Alcohol/Drug | No |
| Rehabilitation | No |
| Psychiatric | No |
| Medicare Swing Beds | No |

** Except for CMI

*** Not used in calculating mortality rates**

# DR EDUARDO GARRIDO MORALES HOSPITAL

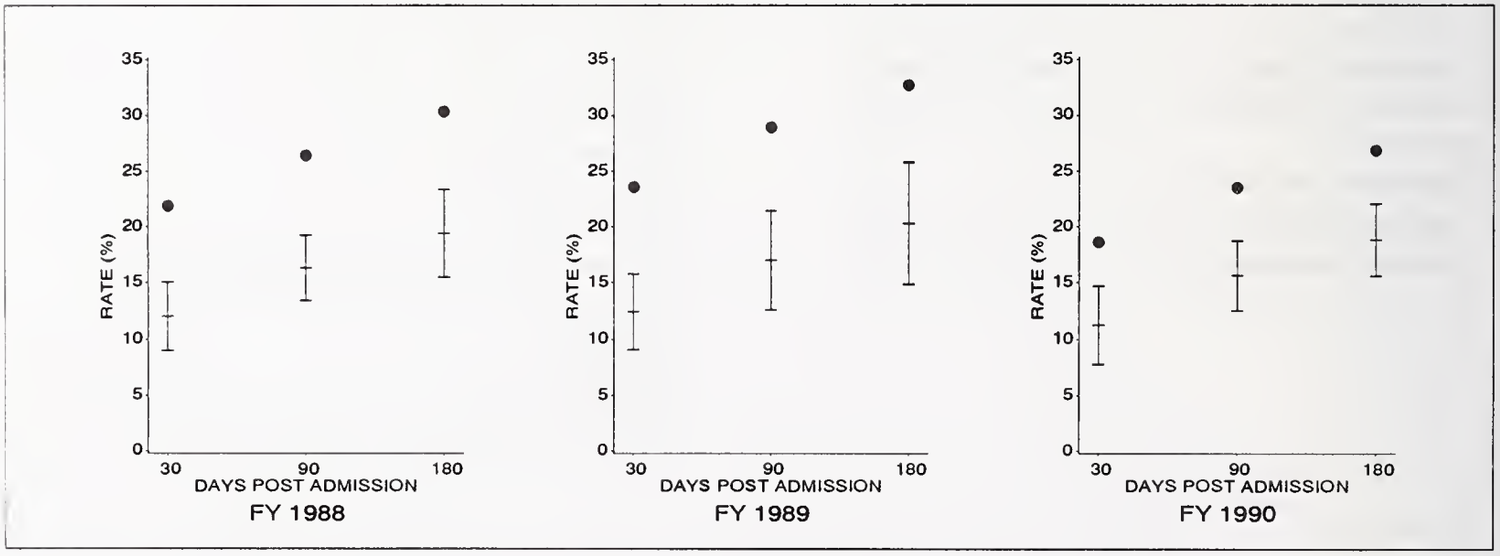
TURABO GARDENS APARTADO 5729
CAGUAS, PR 00626
Medicare Provider Number: 400104

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY | NUMBER OF CASES | MORTALITY RATES (%) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 30 DAYS | | | 90 DAYS | | | 180 DAYS | | |
| | | OBS | PRED | SD* | OBS | PRED | SD* | OBS | PRED | SD* |
| ALL CAUSES | 1084 | 18.6 | 11.2 | 1.7 | 23.5 | 15.6 | 1.6 | 26.8 | 18.8 | 1.6 |
| CONDITIONS: | | | | | | | | | | |
| Acute Myocardial Infarction | 48 | 35.4 | 26.2 | ----- | 35.4 | 28.4 | ----- | 37.5 | 30.6 | ----- |
| Congestive Heart Failure | 51 | 25.5 | 14.9 | 9.1 | 31.4 | 23.2 | 8.4 | 39.2 | 29.3 | 9.6 |
| Pneumonia/Influenza | 97 | 30.9 | 18.4 | 5.6 | 40.2 | 24.6 | 6.7 | 45.4 | 28.4 | 7.0 |
| Chronic Obstructive Pulmonary Disease | 5 | 20.0 | 10.3 | ----- | 20.0 | 17.8 | ----- | 40.0 | 23.0 | ----- |
| Transient Cerebral Ischemia | 14 | 14.3 | 1.2 | ----- | 35.7 | 2.8 | ----- | 35.7 | 4.7 | ----- |
| Stroke | 52 | 32.7 | 19.3 | 7.7 | 38.5 | 26.0 | 8.0 | 40.4 | 29.5 | 8.8 |
| Hip Fracture | 30 | 6.7 | 7.0 | ----- | 13.3 | 12.7 | ----- | 16.7 | 16.2 | ----- |
| Sepsis | 22 | 54.5 | 38.2 | ----- | 72.7 | 44.8 | ----- | 77.3 | 49.0 | ----- |
| PROCEDURES: | | | | | | | | | | |
| Angioplasty | 0 | | | | | | | | | |
| Coronary Artery Bypass Graft | 0 | | | | | | | | | |
| Initial Pacemaker Insertion | 8 | 0.0 | 2.4 | ----- | 12.5 | 4.8 | ----- | 12.5 | 7.1 | ----- |
| Carotid Endarterectomy | 0 | | | | | | | | | |
| Hip Replacement/Reconstruction | 9 | 11.1 | 4.8 | ----- | 22.2 | 9.1 | ----- | 22.2 | 11.9 | ----- |
| Open Reduction of Hip Fracture | 16 | 6.3 | 7.0 | ----- | 12.5 | 13.3 | ----- | 18.8 | 17.4 | ----- |
| Prostatectomy | 67 | 1.5 | 0.6 | 1.6 | 1.5 | 1.5 | 2.5 | 1.5 | 2.7 | 3.6 |
| Cholecystectomy | 20 | 15.0 | 3.8 | ----- | 15.0 | 7.4 | ----- | 25.0 | 10.2 | ----- |
| Hysterectomy | 20 | 0.0 | 0.1 | ----- | 0.0 | 0.2 | ----- | 0.0 | 0.3 | ----- |

* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# DR EDUARDO GARRIDO MORALES HOSPITAL

Medicare Provider Number: 400104

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

DEMOGRAPHICS:

| | |
|---|---|
| Average age at admission | 72.9 years |
| Proportion female | 42.4 % |

ADMISSION SOURCES/TYPES:

| | |
|---|---|
| Referred by personal or HMO physician | 0.6 % |
| Transferred from skilled nursing facility | 0.0 % |
| Admitted for elective procedure | 20.3 % |
| Admitted for emergency | 77.8 % |

COMORBIDITIES:

| | |
|---|---|
| Cancer | 3.5 % |
| Chronic cardiovascular disease | 28.1 % |
| Chronic liver disease | 1.9 % |
| Chronic renal disease | 1.9 % |
| Chronic pulmonary disease | 8.8 % |
| Cerebrovascular degeneration | 1.6 % |
| Diabetes mellitus | 12.7 % |

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS*

ORIGIN OF MEDICARE PATIENT ADMISSION:

| | |
|---|---|
| County/City | 38.6% |
| State | 59.3% |
| Outside State | 2.1% |
| Total | 100.0% |

MEDICARE AVERAGE LENGTH OF STAY:

| | |
|---|---|
| Hospital | 9.7 Days |
| State | 7.2 Days |
| National | 8.6 Days |

## HOSPITAL CHARACTERISTICS*

SOURCE: Health Care Financing Administration (OSCAR)** - Survey Year 1989

PROFILE:

| | |
|---|---|
| Total Beds | 373 |
| Ownership/Control | State Government |
| Case Mix Index (CMI) | 1.1988 |

STAFFING:

| | |
|---|---|
| Medical Residents/Interns | 90 |
| Registered Nurses | 357 |
| Licensed Practical Nurses | 117 |

SPECIALTY SERVICES:

| | |
|---|---|
| Burn Unit | Yes |
| Coronary Care Unit | Yes |
| Hospice Care | No |
| Intensive Care Unit | Yes |
| Organ Transplant | Yes |
| Trauma Center | Yes |

OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

| | |
|---|---|
| Alcohol/Drug | Yes |
| Rehabilitation | Yes |
| Psychiatric | Yes |
| Medicare Swing Beds | No |

** Except for CMI

*** Not used in calculating mortality rates**

# DR GUBERNS HOSPITAL

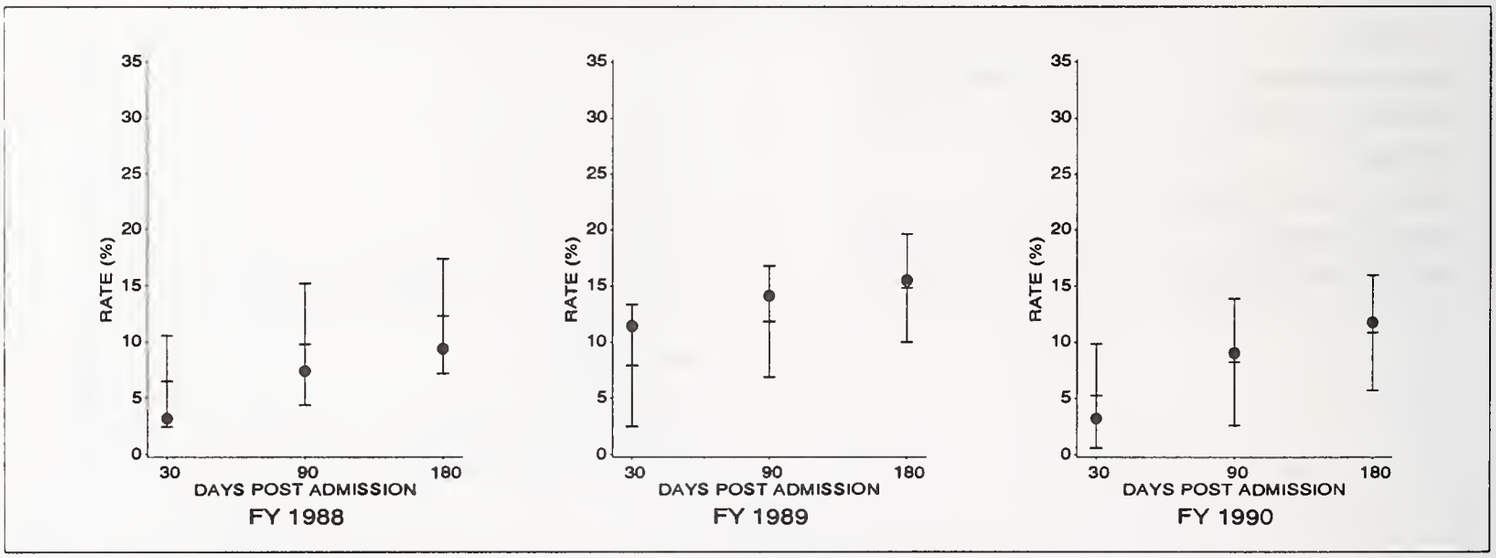
110 ANTONIO R BARCELO
FAJARDO, PR 00738
Medicare Provider Number: 400094

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY | NUMBER OF CASES | MORTALITY RATES (%) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 30 DAYS | | | 90 DAYS | | | 180 DAYS | | |
| | | OBS | PRED | SD* | OBS | PRED | SD* | OBS | PRED | SD* |
| ALL CAUSES | 222 | 3.2 | 5.2 | 2.3 | 9.0 | 8.2 | 2.8 | 11.7 | 10.8 | 2.6 |
| CONDITIONS: | | | | | | | | | | |
| Acute Myocardial Infarction | 1 | 0.0 | 9.5 | ----- | 0.0 | 11.2 | ----- | 0.0 | 13.6 | ----- |
| Congestive Heart Failure | 6 | 0.0 | 11.9 | ----- | 33.3 | 18.5 | ----- | 33.3 | 25.8 | ----- |
| Pneumonia/Influenza | 13 | 7.7 | 15.2 | ----- | 15.4 | 20.4 | ----- | 23.1 | 23.4 | ----- |
| Chronic Obstructive Pulmonary Disease | 2 | 0.0 | 9.3 | ----- | 0.0 | 17.1 | ----- | 50.0 | 23.9 | ----- |
| Transient Cerebral Ischemia | 1 | 0.0 | 1.0 | ----- | 0.0 | 2.5 | ----- | 0.0 | 4.6 | ----- |
| Stroke | 7 | 42.9 | 18.7 | ----- | 42.9 | 24.9 | ----- | 42.9 | 28.7 | ----- |
| Hip Fracture | 0 | | | | | | | | | |
| Sepsis | 0 | | | | | | | | | |
| PROCEDURES: | | | | | | | | | | |
| Angioplasty | 0 | | | | | | | | | |
| Coronary Artery Bypass Graft | 0 | | | | | | | | | |
| Initial Pacemaker Insertion | 0 | | | | | | | | | |
| Carotid Endarterectomy | 0 | | | | | | | | | |
| Hip Replacement/Reconstruction | 0 | | | | | | | | | |
| Open Reduction of Hip Fracture | 0 | | | | | | | | | |
| Prostatectomy | 18 | 0.0 | 0.4 | ----- | 5.6 | 0.8 | ----- | 5.6 | 1.4 | ----- |
| Cholecystectomy | 13 | 0.0 | 0.7 | ----- | 0.0 | 1.1 | ----- | 0.0 | 1.4 | ----- |
| Hysterectomy | 4 | 0.0 | 0.1 | ----- | 0.0 | 0.2 | ----- | 0.0 | 0.4 | ----- |

* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# DR GUBERNS HOSPITAL
Medicare Provider Number: 400094

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

DEMOGRAPHICS:

| | |
|---|---|
| Average age at admission | 72.9 years |
| Proportion female | 54.5 % |

ADMISSION SOURCES/TYPES:

| | |
|---|---|
| Referred by personal or HMO physician | 93.7 % |
| Transferred from skilled nursing facility | 0.0 % |
| Admitted for elective procedure | 24.3 % |
| Admitted for emergency | 6.3 % |

COMORBIDITIES:

| | |
|---|---|
| Cancer | 2.7 % |
| Chronic cardiovascular disease | 45.0 % |
| Chronic liver disease | 0.5 % |
| Chronic renal disease | 0.9 % |
| Chronic pulmonary disease | 9.0 % |
| Cerebrovascular degeneration | 0.9 % |
| Diabetes mellitus | 14.9 % |

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS*

ORIGIN OF MEDICARE PATIENT ADMISSION:

| | |
|---|---|
| County/City | 46.1% |
| State | 51.5% |
| Outside State | 2.4% |
| Total | 100.0% |

MEDICARE AVERAGE LENGTH OF STAY:

| | |
|---|---|
| Hospital | 6.0 Days |
| State | 7.2 Days |
| National | 8.6 Days |

## HOSPITAL CHARACTERISTICS*

SOURCE: Health Care Financing Administration (OSCAR)** - Survey Year 1991

PROFILE:

| | |
|---|---|
| Total Beds | 51 |
| Ownership/Control | Private, For Profit |
| Case Mix Index (CMI) | 0.9455 |

STAFFING:

| | |
|---|---|
| Medical Residents/Interns | 5 |
| Registered Nurses | 15 |
| Licensed Practical Nurses | 13 |

SPECIALTY SERVICES:

| | |
|---|---|
| Burn Unit | No |
| Coronary Care Unit | No |
| Hospice Care | No |
| Intensive Care Unit | No |
| Organ Transplant | No |
| Trauma Center | No |

OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

| | |
|---|---|
| Alcohol/Drug | No |
| Rehabilitation | Yes |
| Psychiatric | No |
| Medicare Swing Beds | No |

** Except for CMI

* Not used in calculating mortality rates

# DR I GONZALEZ MARTINEZ ONCOLOGY HOSPITAL

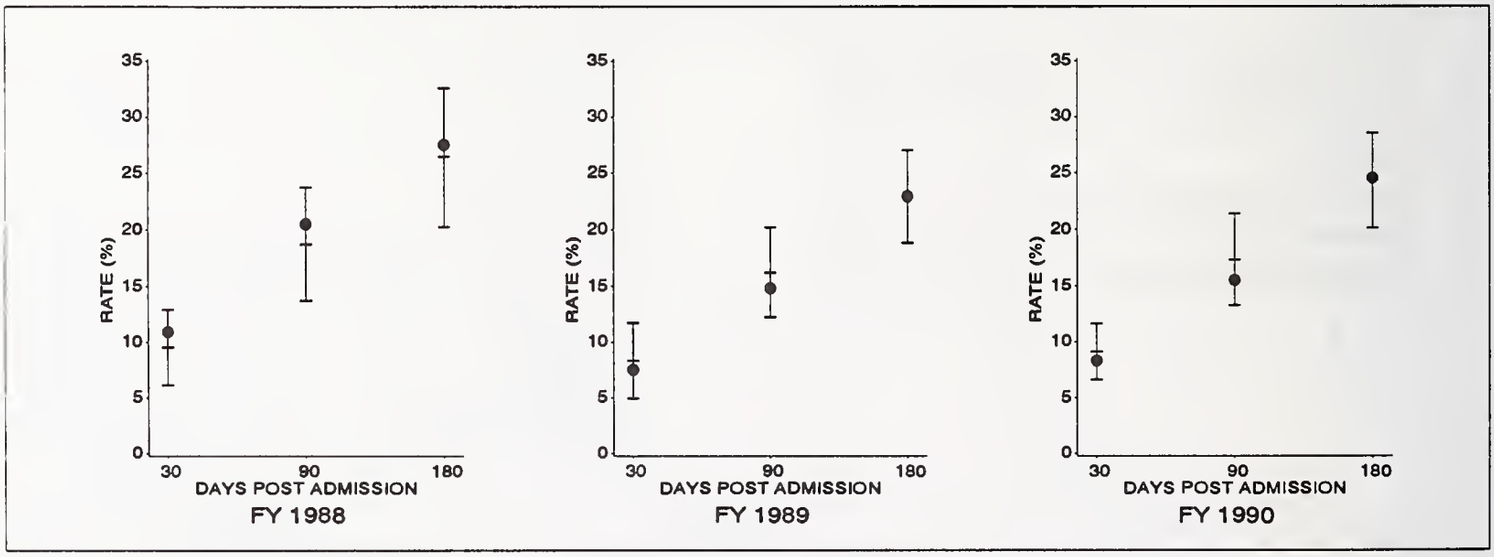
BOX 1811 CENTRO MEDICO
HATO REY, PR 00919
Medicare Provider Number: 400012

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY | NUMBER OF CASES | MORTALITY RATES (%) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 30 DAYS | | | 90 DAYS | | | 180 DAYS | | |
| | | OBS | PRED | SD* | OBS | PRED | SD* | OBS | PRED | SD* |
| ALL CAUSES | 592 | 8.3 | 9.1 | 1.3 | 15.5 | 17.3 | 2.0 | 24.5 | 24.3 | 2.1 |
| CONDITIONS: | | | | | | | | | | |
| Acute Myocardial Infarction | 2 | 0.0 | 29.1 | ----- | 0.0 | 31.2 | ----- | 0.0 | 33.7 | ----- |
| Congestive Heart Failure | 6 | 33.3 | 23.7 | ----- | 50.0 | 37.9 | ----- | 66.7 | 48.8 | ----- |
| Pneumonia/Influenza | 2 | 0.0 | 14.7 | ----- | 0.0 | 20.9 | ----- | 0.0 | 24.8 | ----- |
| Chronic Obstructive Pulmonary Disease | 0 | | | | | | | | | |
| Transient Cerebral Ischemia | 0 | | | | | | | | | |
| Stroke | 1 | 0.0 | 28.2 | ----- | 0.0 | 33.6 | ----- | 0.0 | 37.9 | ----- |
| Hip Fracture | 0 | | | | | | | | | |
| Sepsis | 4 | 50.0 | 18.5 | ----- | 100.0 | 25.0 | ----- | 100.0 | 29.8 | ----- |
| PROCEDURES: | | | | | | | | | | |
| Angioplasty | 1 | 0.0 | 0.8 | ----- | 0.0 | 1.6 | ----- | 0.0 | 2.6 | ----- |
| Coronary Artery Bypass Graft | 0 | | | | | | | | | |
| Initial Pacemaker insertion | 1 | 0.0 | 2.0 | ----- | 0.0 | 4.0 | ----- | 0.0 | 5.3 | ----- |
| Carotid Endarterectomy | 0 | | | | | | | | | |
| Hip Replacement/Reconstruction | 0 | | | | | | | | | |
| Open Reduction of Hip Fracture | 0 | | | | | | | | | |
| Prostatectomy | 61 | 3.3 | 1.3 | 2.6 | 3.3 | 3.1 | 2.3 | 6.6 | 5.2 | 3.6 |
| Cholecystectomy | 10 | 10.0 | 1.8 | ----- | 20.0 | 3.6 | ----- | 20.0 | 5.1 | ----- |
| Hysterectomy | 13 | 0.0 | 1.0 | ----- | 0.0 | 2.3 | ----- | 0.0 | 3.7 | ----- |

* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# DR I GONZALEZ MARTINEZ ONCOLOGY HOSPITAL

Medicare Provider Number: 400012

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

DEMOGRAPHICS:

| | |
|---|---|
| Average age at admission | 71.5 years |
| Proportion female | 38.5 % |

ADMISSION SOURCES/TYPES:

| | |
|---|---|
| Referred by personal or HMO physician | 98.3 % |
| Transferred from skilled nursing facility | 0.0 % |
| Admitted for elective procedure | 0.2 % |
| Admitted for emergency | 81.9 % |

COMORBIDITIES:

| | |
|---|---|
| Cancer | 42.7 % |
| Chronic cardiovascular disease | 24.0 % |
| Chronic liver disease | 0.8 % |
| Chronic renal disease | 0.7 % |
| Chronic pulmonary disease | 4.9 % |
| Cerebrovascular degeneration | 0.3 % |
| Diabetes mellitus | 7.8 % |

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS*

ORIGIN OF MEDICARE PATIENT ADMISSION:

| | |
|---|---|
| County/City | 15.0% |
| State | 83.9% |
| Outside State | 1.1% |
| Total | 100.0% |

MEDICARE AVERAGE LENGTH OF STAY:

| | |
|---|---|
| Hospital | 6.9 Days |
| State | 7.2 Days |
| National | 8.6 Days |

## HOSPITAL CHARACTERISTICS*

SOURCE: Health Care Financing Administration (OSCAR)** - Survey Year 1989

PROFILE:

| | |
|---|---|
| Total Beds | 143 |
| Ownership.Control | Private, Non-Profit |
| Case Mix Index (CMI) | 0.9681 |

STAFFING:

| | |
|---|---|
| Medical Residents/Interns | 18 |
| Registered Nurses | 53 |
| Licensed Practical Nurses | 26 |

SPECIALTY SERVICES:

| | |
|---|---|
| Burn Unit | No |
| Coronary Care Unit | No |
| Hospice Care | No |
| Intensive Care Unit | Yes |
| Organ Transplant | No |
| Trauma Center | No |

OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

| | |
|---|---|
| Alcohol/Drug | No |
| Rehabilitation | No |
| Psychiatric | Yes |
| Medicare Swing Beds | No |

** Except for CMI

*** Not used in calculating mortality rates**

# DR RAMON RUIZ ARNAU BAYAMON REGIONAL

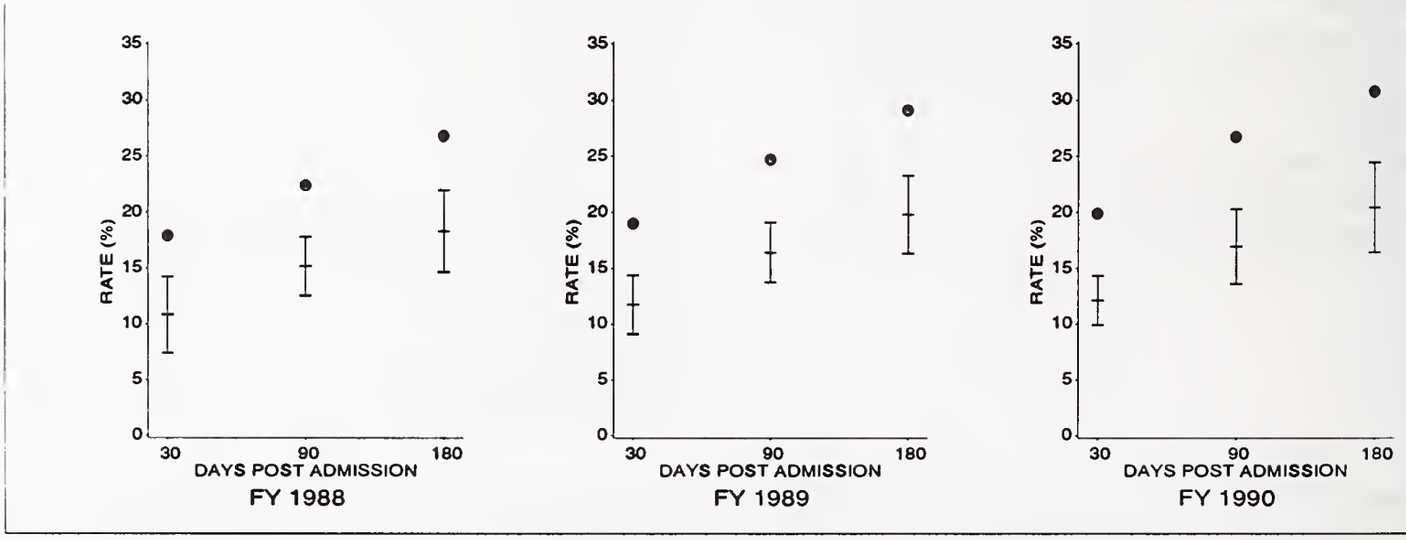
LAUREL AVE SANTA JUANITA
BAYAMON, PR 00619
Medicare Provider Number: 400105

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY | NUMBER OF CASES | MORTALITY RATES (%) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 30 DAYS | | | 90 DAYS | | | 180 DAYS | | |
| | | OBS | PRED | SD* | OBS | PRED | SD* | OBS | PRED | SD* |
| ALL CAUSES | 1343 | 19.9 | 12.1 | 1.1 | 26.7 | 16.9 | 1.7 | 30.7 | 20.4 | 2.0 |
| CONDITIONS: | | | | | | | | | | |
| Acute Myocardial Infarction | 64 | 32.8 | 25.4 | 6.2 | 43.8 | 27.8 | 8.8 | 46.9 | 30.0 | 8.1 |
| Congestive Heart Failure | 104 | 14.4 | 13.6 | 5.9 | 26.9 | 21.8 | 8.0 | 36.5 | 27.8 | 9.4 |
| Pneumonia/Influenza | 104 | 38.5 | 17.2 | 4.5 | 46.2 | 23.1 | 5.8 | 50.0 | 26.6 | 5.6 |
| Chronic Obstructive Pulmonary Disease | 9 | 22.2 | 5.7 | ----- | 33.3 | 10.6 | ----- | 33.3 | 14.0 | ----- |
| Transient Cerebral Ischemia | 6 | 16.7 | 1.7 | ----- | 33.3 | 3.8 | ----- | 33.3 | 6.1 | ----- |
| Stroke | 63 | 57.1 | 25.4 | 9.8 | 58.7 | 30.6 | 7.3 | 61.9 | 33.7 | 7.4 |
| Hip Fracture | 26 | 7.7 | 6.5 | ----- | 15.4 | 11.1 | ----- | 23.1 | 14.3 | ----- |
| Sepsis | 21 | 47.6 | 31.3 | ----- | 66.7 | 37.6 | ----- | 71.4 | 42.1 | ----- |
| PROCEDURES: | | | | | | | | | | |
| Angioplasty | 0 | | | | | | | | | |
| Coronary Artery Bypass Graft | 0 | | | | | | | | | |
| Initial Pacemaker Insertion | 9 | 0.0 | 5.7 | ----- | 0.0 | 9.4 | ----- | 0.0 | 12.2 | ----- |
| Carotid Endarterectomy | 0 | | | | | | | | | |
| Hip Replacement/Reconstruction | 7 | 0.0 | 5.3 | ----- | 0.0 | 9.5 | ----- | 0.0 | 12.5 | ----- |
| Open Reduction of Hip Fracture | 9 | 0.0 | 6.4 | ----- | 11.1 | 11.4 | ----- | 11.1 | 15.0 | ----- |
| Prostatectomy | 43 | 0.0 | 1.2 | ----- | 0.0 | 2.7 | ----- | 0.0 | 4.6 | ----- |
| Cholecystectomy | 30 | 0.0 | 1.6 | ----- | 0.0 | 3.1 | ----- | 0.0 | 4.2 | ----- |
| Hysterectomy | 4 | 0.0 | 0.9 | ----- | 0.0 | 1.8 | ----- | 0.0 | 2.7 | ----- |

* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# DR RAMON RUIZ ARNAU BAYAMON REGIONAL

Medicare Provider Number: 400105

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

DEMOGRAPHICS:

| | |
|---|---|
| Average age at admission | 72.7 years |
| Proportion female | 40.9 % |

ADMISSION SOURCES/TYPES:

| | |
|---|---|
| Referred by personal or HMO physician | 0.0 % |
| Transferred from skilled nursing facility | 0.0 % |
| Admitted for elective procedure | 12.7 % |
| Admitted for emergency | 76.9 % |

COMORBIDITIES:

| | |
|---|---|
| Cancer | 4.1 % |
| Chronic cardiovascular disease | 32.9 % |
| Chronic liver disease | 1.6 % |
| Chronic renal disease | 2.3 % |
| Chronic pulmonary disease | 10.2 % |
| Cerebrovascular degeneration | 0.5 % |
| Diabetes mellitus | 17.8 % |

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS*

ORIGIN OF MEDICARE PATIENT ADMISSION:

| | |
|---|---|
| County/City | 31.7% |
| State | 67.3% |
| Outside State | 1.0% |
| Total | 100.0% |

MEDICARE AVERAGE LENGTH OF STAY:

| | |
|---|---|
| Hospital | 9.3 Days |
| State | 7.2 Days |
| National | 8.6 Days |

## HOSPITAL CHARACTERISTICS*

SOURCE: Health Care Financing Administration (OSCAR)** - Survey Year 1989

PROFILE:

| | |
|---|---|
| Total Beds | 415 |
| Ownership/Control | State Government |
| Case Mix Index (CMI) | 1.2736 |

STAFFING:

| | |
|---|---|
| Medical Residents/Interns | 43 |
| Registered Nurses | 266 |
| Licensed Practical Nurses | 200 |

SPECIALTY SERVICES:

| | |
|---|---|
| Burn Unit | Yes |
| Coronary Care Unit | Yes |
| Hospice Care | No |
| Intensive Care Unit | Yes |
| Organ Transplant | No |
| Trauma Center | No |

OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

| | |
|---|---|
| Alcohol/Drug | No |
| Rehabilitation | Yes |
| Psychiatric | Yes |
| Medicare Swing Beds | No |

** Except for CMI

* Not used in calculating mortality rates

# FAJARDO SUB REGIONAL HOSPITAL

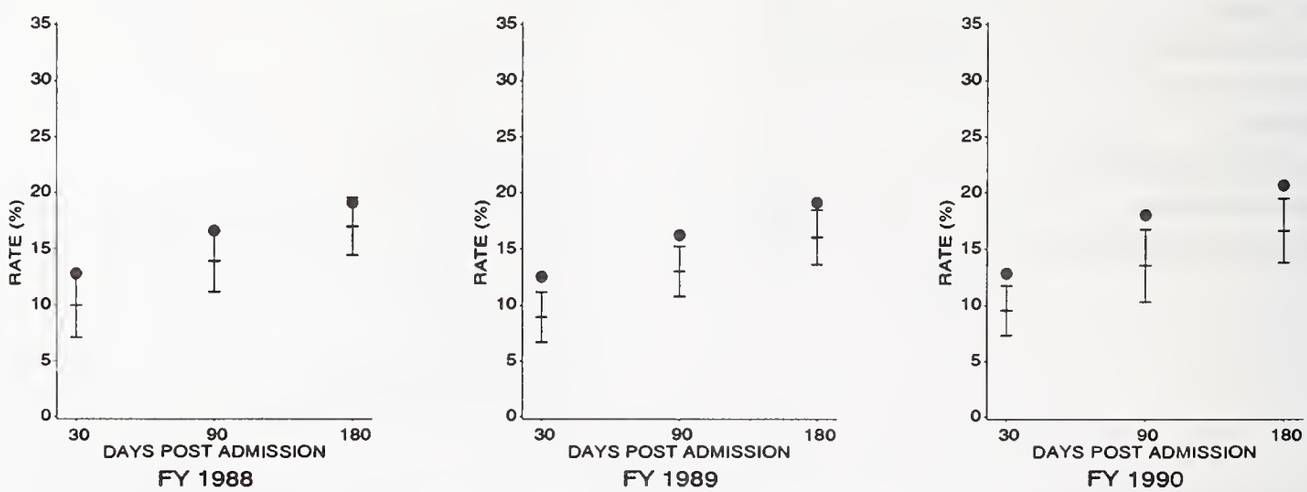
GENERAL VALERO AVE
FAJARDO, PR 00648
Medicare Provider Number: 400029

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY | NUMBER OF CASES | MORTALITY RATES (%) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 30 DAYS | | | 90 DAYS | | | 180 DAYS | | |
| | | OBS | PRED | SD* | OBS | PRED | SD* | OBS | PRED | SD* |
| ALL CAUSES | 1549 | 12.8 | 9.5 | 1.1 | 18.0 | 13.5 | 1.6 | 20.6 | 16.6 | 1.4 |
| CONDITIONS: | | | | | | | | | | |
| Acute Myocardial Infarction | 58 | 22.4 | 29.4 | 8.3 | 29.3 | 31.7 | 7.3 | 31.0 | 34.4 | 7.4 |
| Congestive Heart Failure | 105 | 15.2 | 14.6 | 3.5 | 23.8 | 23.3 | 6.1 | 29.5 | 29.7 | 6.6 |
| Pneumonia/Influenza | 68 | 32.4 | 15.8 | 6.7 | 39.7 | 20.8 | 7.4 | 45.6 | 24.5 | 8.1 |
| Chronic Obstructive Pulmonary Disease | 1 | 100.0 | 23.3 | ----- | 100.0 | 32.8 | ----- | 100.0 | 37.2 | ----- |
| Transient Cerebral Ischemia | 37 | 0.0 | 1.9 | ----- | 2.7 | 4.3 | ----- | 10.8 | 7.0 | ----- |
| Stroke | 95 | 32.6 | 20.8 | 7.2 | 43.2 | 26.0 | 7.7 | 46.3 | 29.5 | 7.6 |
| Hip Fracture | 18 | 27.8 | 5.5 | ----- | 27.8 | 10.1 | ----- | 38.9 | 13.2 | ----- |
| Sepsis | 23 | 56.5 | 36.8 | ----- | 82.6 | 43.3 | ----- | 87.0 | 48.2 | ----- |
| PROCEDURES: | | | | | | | | | | |
| Angioplasty | 0 | | | | | | | | | |
| Coronary Artery Bypass Graft | 0 | | | | | | | | | |
| Initial Pacemaker Insertion | 0 | | | | | | | | | |
| Carotid Endarterectomy | 0 | | | | | | | | | |
| Hip Replacement/Reconstruction | 1 | 0.0 | 3.9 | ----- | 0.0 | 7.9 | ----- | 0.0 | 10.5 | ----- |
| Open Reduction of Hip Fracture | 11 | 27.3 | 5.9 | ----- | 27.3 | 11.0 | ----- | 36.4 | 14.3 | ----- |
| Prostatectomy | 118 | 1.7 | 0.5 | 1.1 | 2.5 | 1.2 | 1.7 | 3.4 | 2.1 | 2.6 |
| Cholecystectomy | 23 | 8.7 | 1.7 | ----- | 8.7 | 2.7 | ----- | 17.4 | 3.6 | ----- |
| Hysterectomy | 9 | 11.1 | 0.1 | ----- | 11.1 | 0.2 | ----- | 11.1 | 0.4 | ----- |

* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# FAJARDO SUB REGIONAL HOSPITAL

Medicare Provider Number: 400029

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

DEMOGRAPHICS:

| | |
|---|---|
| Average age at admission | 72.7 years |
| Proportion female | 43.9 % |

ADMISSION SOURCES/TYPES:

| | |
|---|---|
| Referred by personal or HMO physician | 9.9 % |
| Transferred from skilled nursing facility | 0.0 % |
| Admitted for elective procedure | 16.9 % |
| Admitted for emergency | 73.0 % |

COMORBIDITIES:

| | |
|---|---|
| Cancer | 3.0 % |
| Chronic cardiovascular disease | 32.3 % |
| Chronic liver disease | 1.8 % |
| Chronic renal disease | 2.5 % |
| Chronic pulmonary disease | 12.1 % |
| Cerebrovascular degeneration | 1.2 % |
| Diabetes mellitus | 16.8 % |

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS*

ORIGIN OF MEDICARE PATIENT ADMISSION:

| | |
|---|---|
| County/City | 33.1% |
| State | 65.0% |
| Outside State | 1.9% |
| Total | 100.0% |

MEDICARE AVERAGE LENGTH OF STAY:

| | |
|---|---|
| Hospital | 7.1 Days |
| State | 7.2 Days |
| National | 8.6 Days |

## HOSPITAL CHARACTERISTICS*

SOURCE: Health Care Financing Administration (OSCAR)** - Survey Year 1988

PROFILE:

| | |
|---|---|
| Total Beds | 180 |
| Ownership/Control | State Government |
| Case Mix Index (CMI) | 1.0307 |

STAFFING:

| | |
|---|---|
| Medical Residents/Interns | 3 |
| Registered Nurses | 97 |
| Licensed Practical Nurses | 103 |

SPECIALTY SERVICES:

| | |
|---|---|
| Burn Unit | No |
| Coronary Care Unit | Yes |
| Hospice Care | No |
| Intensive Care Unit | Yes |
| Organ Transplant | No |
| Trauma Center | No |

OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

| | |
|---|---|
| Alcohol/Drug | No |
| Rehabilitation | No |
| Psychiatric | No |
| Medicare Swing Beds | No |

** Except for CMI

*** Not used in calculating mortality rates**

# FONT MARTELLO HOSPITAL

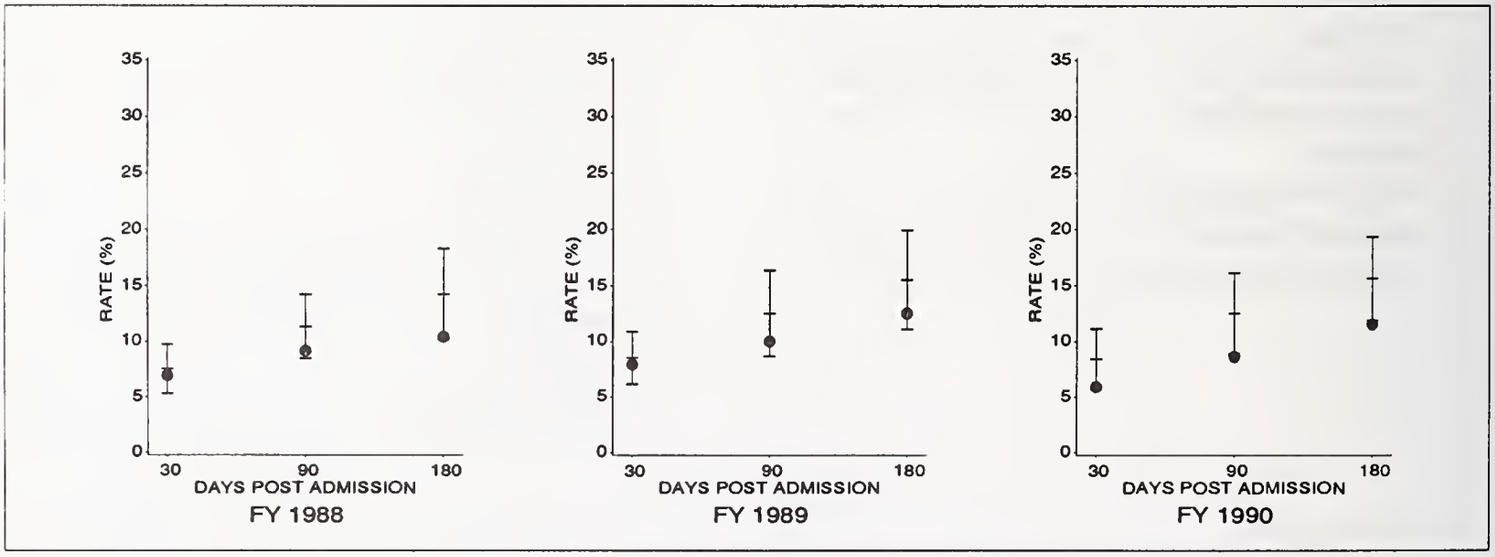
BOX 639
HUMACAO, PR 00661
Medicare Provider Number: 400005

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY | NUMBER OF CASES | MORTALITY RATES (%) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 30 DAYS | | | 90 DAYS | | | 180 DAYS | | |
| | | OBS | PRED | SD* | OBS | PRED | SD* | OBS | PRED | SD* |
| ALL CAUSES | 747 | 5.9 | 8.4 | 1.4 | 8.6 | 12.5 | 1.8 | 11.5 | 15.6 | 1.9 |
| CONDITIONS: | | | | | | | | | | |
| Acute Myocardial Infarction | 23 | 26.1 | 21.6 | ----- | 26.1 | 25.3 | ----- | 39.1 | 28.2 | ----- |
| Congestive Heart Failure | 80 | 2.5 | 12.4 | 5.2 | 7.5 | 20.2 | 6.6 | 15.0 | 26.2 | 7.0 |
| Pneumonia/Influenza | 33 | 3.0 | 14.2 | ----- | 6.1 | 19.4 | ----- | 12.1 | 22.8 | ----- |
| Chronic Obstructive Pulmonary Disease | 6 | 0.0 | 5.5 | ----- | 0.0 | 11.2 | ----- | 16.7 | 16.7 | ----- |
| Transient Cerebral Ischemia | 19 | 0.0 | 1.6 | ----- | 5.3 | 3.6 | ----- | 5.3 | 5.8 | ----- |
| Stroke | 21 | 23.8 | 15.5 | ----- | 23.8 | 21.8 | ----- | 23.8 | 25.4 | ----- |
| Hip Fracture | 4 | 0.0 | 5.9 | ----- | 0.0 | 9.5 | ----- | 0.0 | 12.6 | ----- |
| Sepsis | 21 | 23.8 | 31.3 | ----- | 38.1 | 38.9 | ----- | 38.1 | 43.6 | ----- |
| PROCEDURES: | | | | | | | | | | |
| Angioplasty | 0 | | | | | | | | | |
| Coronary Artery Bypass Graft | 0 | | | | | | | | | |
| Initial Pacemaker Insertion | 1 | 0.0 | 1.2 | ----- | 0.0 | 2.4 | ----- | 0.0 | 3.8 | ----- |
| Carotid Endarterectomy | 0 | | | | | | | | | |
| Hip Replacement/Reconstruction | 1 | 0.0 | 2.1 | ----- | 0.0 | 3.9 | ----- | 0.0 | 5.3 | ----- |
| Open Reduction of Hip Fracture | 3 | 0.0 | 6.5 | ----- | 0.0 | 10.7 | ----- | 0.0 | 14.3 | ----- |
| Prostatectomy | 46 | 0.0 | 1.5 | ----- | 0.0 | 3.1 | ----- | 0.0 | 5.0 | ----- |
| Cholecystectomy | 13 | 0.0 | 3.1 | ----- | 0.0 | 4.6 | ----- | 7.7 | 5.6 | ----- |
| Hysterectomy | 12 | 0.0 | 0.1 | ----- | 0.0 | 0.2 | ----- | 0.0 | 0.3 | ----- |

* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# FONT MARTELLO HOSPITAL
Medicare Provider Number: 400005

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

DEMOGRAPHICS:

| | |
|---|---|
| Average age at admission | 73.4 years |
| Proportion female | 48.5 % |

ADMISSION SOURCES/TYPES:

| | |
|---|---|
| Referred by personal or HMO physician | 36.0 % |
| Transferred from skilled nursing facility | 0.0 % |
| Admitted for elective procedure | 15.1 % |
| Admitted for emergency | 53.3 % |

COMORBIDITIES:

| | |
|---|---|
| Cancer | 2.8 % |
| Chronic cardiovascular disease | 39.9 % |
| Chronic liver disease | 2.0 % |
| Chronic renal disease | 2.1 % |
| Chronic pulmonary disease | 9.5 % |
| Cerebrovascular degeneration | 1.9 % |
| Diabetes mellitus | 17.4 % |

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS*

ORIGIN OF MEDICARE PATIENT ADMISSION:

| | |
|---|---|
| County/City | 49.4% |
| State | 50.0% |
| Outside State | 0.6% |
| Total | 100.0% |

MEDICARE AVERAGE LENGTH OF STAY:

| | |
|---|---|
| Hospital | 5.9 Days |
| State | 7.2 Days |
| National | 8.6 Days |

## HOSPITAL CHARACTERISTICS*

SOURCE: Health Care Financing Administration (OSCAR)** - Survey Year 1990

PROFILE:

| | |
|---|---|
| Total Beds | 105 |
| Ownership/Control | Private, For Profit |
| Case Mix Index (CMI) | 1.0462 |

STAFFING:

| | |
|---|---|
| Medical Residents/Interns | 1 |
| Registered Nurses | 42 |
| Licensed Practical Nurses | 42 |

SPECIALTY SERVICES:

| | |
|---|---|
| Burn Unit | No |
| Coronary Care Unit | Yes |
| Hospice Care | No |
| Intensive Care Unit | Yes |
| Organ Transplant | No |
| Trauma Center | No |

OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

| | |
|---|---|
| Alcohol/Drug | No |
| Rehabilitation | No |
| Psychiatric | No |
| Medicare Swing Beds | No |

** Except for CMI

*** Not used in calculating mortality rates**

# GUAYAMA AREA HOSPITAL

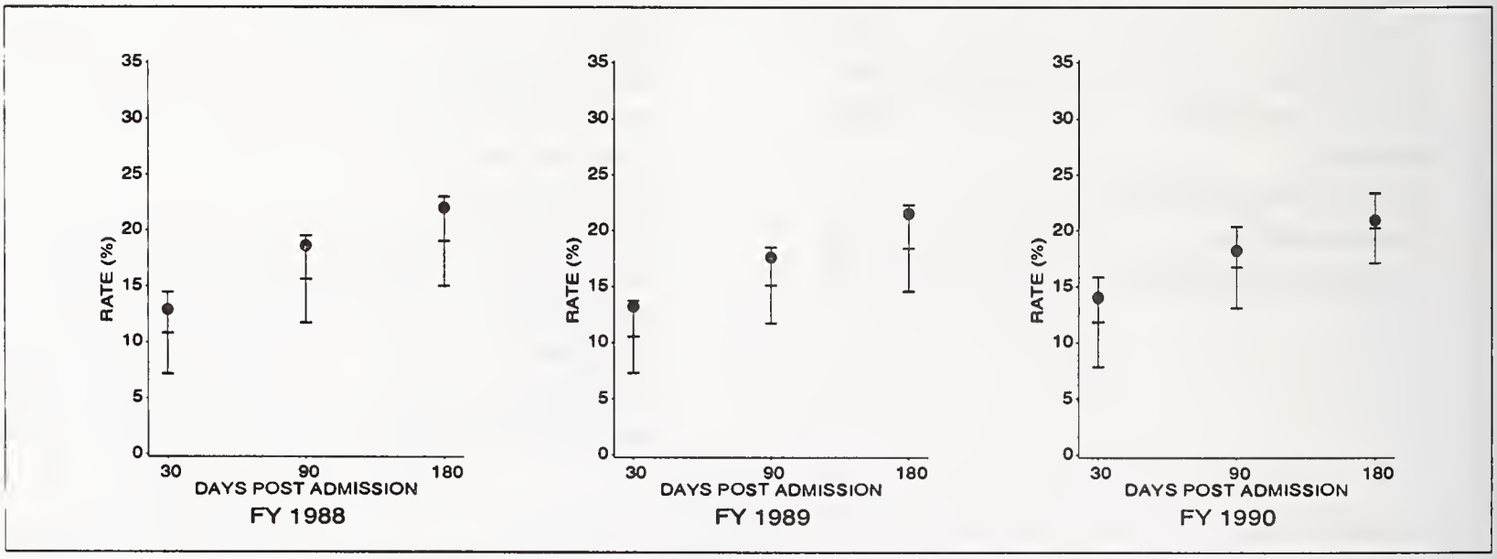
PO BOX 910
GUAYAMA, PR 00654
Medicare Provider Number: 400048

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY | NUMBER OF CASES | MORTALITY RATES (%) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 30 DAYS | | | 90 DAYS | | | 180 DAYS | | |
| | | OBS | PRED | SD* | OBS | PRED | SD* | OBS | PRED | SD* |
| ALL CAUSES | 808 | 14.0 | 11.8 | 2.0 | 18.2 | 16.7 | 1.8 | 20.9 | 20.2 | 1.6 |
| CONDITIONS: | | | | | | | | | | |
| Acute Myocardial Infarction | 44 | 29.5 | 31.9 | ----- | 34.1 | 34.3 | ----- | 34.1 | 36.8 | ----- |
| Congestive Heart Failure | 82 | 18.3 | 14.2 | 7.2 | 30.5 | 22.7 | 10.1 | 35.4 | 29.1 | 9.8 |
| Pneumonia/Influenza | 35 | 31.4 | 17.1 | ----- | 31.4 | 22.5 | ----- | 31.4 | 26.3 | ----- |
| Chronic Obstructive Pulmonary Disease | 10 | 20.0 | 12.4 | ----- | 30.0 | 19.9 | ----- | 30.0 | 25.1 | ----- |
| Transient Cerebral Ischemia | 9 | 0.0 | 1.7 | ----- | 0.0 | 3.9 | ----- | 11.1 | 6.3 | ----- |
| Stroke | 69 | 30.4 | 22.7 | 8.3 | 33.3 | 28.4 | 7.2 | 33.3 | 31.7 | 6.9 |
| Hip Fracture | 0 | | | | | | | | | |
| Sepsis | 5 | 40.0 | 27.8 | ----- | 80.0 | 35.8 | ----- | 80.0 | 41.3 | ----- |
| PROCEDURES: | | | | | | | | | | |
| Angioplasty | 0 | | | | | | | | | |
| Coronary Artery Bypass Graft | 0 | | | | | | | | | |
| Initial Pacemaker Insertion | 0 | | | | | | | | | |
| Carotid Endarterectomy | 0 | | | | | | | | | |
| Hip Replacement/Reconstruction | 0 | | | | | | | | | |
| Open Reduction of Hip Fracture | 0 | | | | | | | | | |
| Prostatectomy | 51 | 2.0 | 0.8 | 1.7 | 2.0 | 1.7 | 2.8 | 3.9 | 2.9 | 3.1 |
| Cholecystectomy | 9 | 0.0 | 3.1 | ----- | 11.1 | 5.4 | ----- | 22.2 | 7.0 | ----- |
| Hysterectomy | 5 | 0.0 | 0.2 | ----- | 0.0 | 0.4 | ----- | 0.0 | 0.8 | ----- |

* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# GUAYAMA AREA HOSPITAL
Medicare Provider Number: 400048

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

DEMOGRAPHICS:

| | |
|---|---|
| Average age at admission | 73.3 years |
| Proportion female | 39.5 % |

ADMISSION SOURCES/TYPES:

| | |
|---|---|
| Referred by personal or HMO physician | 9.9 % |
| Transferred from skilled nursing facility | 0.0 % |
| Admitted for elective procedure | 14.1 % |
| Admitted for emergency | 80.2 % |

COMORBIDITIES:

| | |
|---|---|
| Cancer | 3.6 % |
| Chronic cardiovascular disease | 42.1 % |
| Chronic liver disease | 3.1 % |
| Chronic renal disease | 2.2 % |
| Chronic pulmonary disease | 9.8 % |
| Cerebrovascular degeneration | 1.1 % |
| Diabetes mellitus | 25.6 % |

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS*

ORIGIN OF MEDICARE PATIENT ADMISSION:

| | |
|---|---|
| County/City | 43.8% |
| State | 55.1% |
| Outside State | 1.1% |
| Total | 100.0% |

MEDICARE AVERAGE LENGTH OF STAY:

| | |
|---|---|
| Hospital | 7.7 Days |
| State | 7.2 Days |
| National | 8.6 Days |

## HOSPITAL CHARACTERISTICS*

SOURCE: Health Care Financing Administration (OSCAR)** - Survey Year 1989

PROFILE:

| | |
|---|---|
| Total Beds | 161 |
| Ownership/Control | State Government |
| Case Mix Index (CMI) | 1.1546 |

STAFFING:

| | |
|---|---|
| Medical Residents/Interns | 51 |
| Registered Nurses | 133 |
| Licensed Practical Nurses | 67 |

SPECIALTY SERVICES:

| | |
|---|---|
| Burn Unit | Yes |
| Coronary Care Unit | Yes |
| Hospice Care | Yes |
| Intensive Care Unit | Yes |
| Organ Transplant | No |
| Trauma Center | Yes |

OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

| | |
|---|---|
| Alcohol/Drug | Yes |
| Rehabilitation | Yes |
| Psychiatric | Yes |
| Medicare Swing Beds | No |

** Except for CMI

* Not used in calculating mortality rates

# HATO REY COMMUNITY HOSPITAL

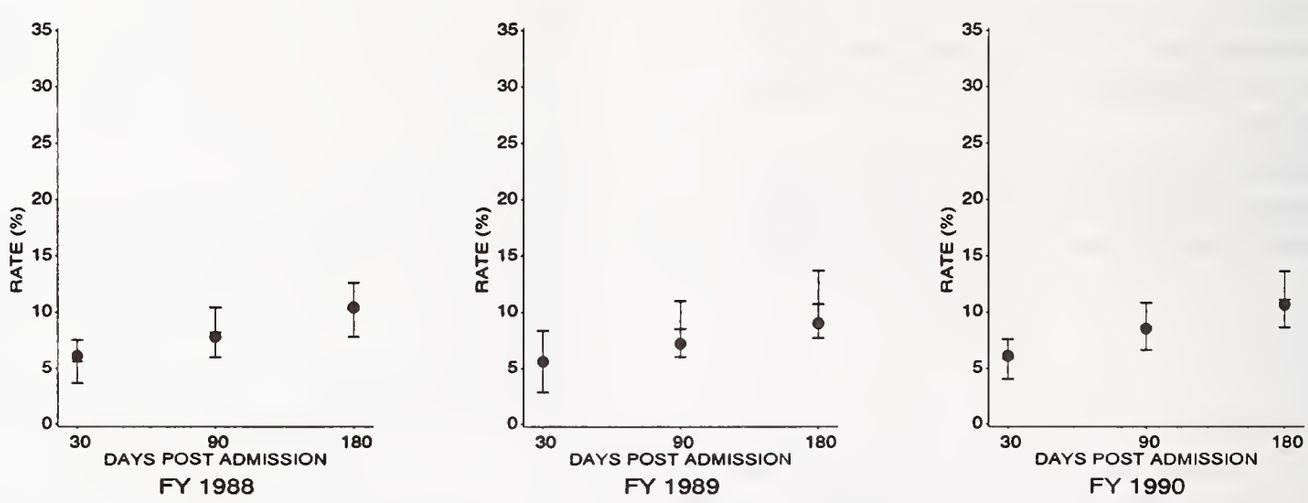
435 PONCE DE LEON AVE
HATO REY, PR 00919
Medicare Provider Number: 400027

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY | NUMBER OF CASES | MORTALITY RATES (%) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 30 DAYS | | | 90 DAYS | | | 180 DAYS | | |
| | | OBS | PRED | SD* | OBS | PRED | SD* | OBS | PRED | SD* |
| ALL CAUSES | 774 | 6.1 | 5.8 | 0.9 | 8.5 | 8.7 | 1.0 | 10.6 | 11.1 | 1.3 |
| CONDITIONS: | | | | | | | | | | |
| Acute Myocardial Infarction | 26 | 23.1 | 23.2 | ----- | 23.1 | 26.3 | ----- | 30.8 | 29.4 | ----- |
| Congestive Heart Failure | 34 | 2.9 | 12.3 | ----- | 8.8 | 19.2 | ----- | 17.6 | 24.5 | ----- |
| Pneumonia/Influenza | 19 | 5.3 | 13.3 | ----- | 10.5 | 18.0 | ----- | 15.8 | 21.1 | ----- |
| Chronic Obstructive Pulmonary Disease | 5 | 0.0 | 4.0 | ----- | 0.0 | 7.4 | ----- | 0.0 | 11.1 | ----- |
| Transient Cerebral Ischemia | 18 | 0.0 | 1.2 | ----- | 5.6 | 2.9 | ----- | 16.7 | 4.9 | ----- |
| Stroke | 23 | 30.4 | 19.5 | ----- | 34.8 | 25.9 | ----- | 39.1 | 29.4 | ----- |
| Hip Fracture | 5 | 0.0 | 5.9 | ----- | 0.0 | 9.3 | ----- | 0.0 | 11.6 | ----- |
| Sepsis | 5 | 80.0 | 43.7 | ----- | 80.0 | 51.8 | ----- | 80.0 | 56.2 | ----- |
| PROCEDURES: | | | | | | | | | | |
| Angioplasty | 0 | | | | | | | | | |
| Coronary Artery Bypass Graft | 0 | | | | | | | | | |
| Initial Pacemaker Insertion | 1 | 0.0 | 7.4 | ----- | 0.0 | 11.3 | ----- | 0.0 | 15.0 | ----- |
| Carotid Endarterectomy | 0 | | | | | | | | | |
| Hip Replacement/Reconstruction | 12 | 0.0 | 1.3 | ----- | 0.0 | 2.2 | ----- | 0.0 | 2.9 | ----- |
| Open Reduction of Hip Fracture | 3 | 0.0 | 5.2 | ----- | 0.0 | 8.1 | ----- | 0.0 | 10.3 | ----- |
| Prostatectomy | 24 | 8.3 | 0.7 | ----- | 8.3 | 1.7 | ----- | 8.3 | 3.0 | ----- |
| Cholecystectomy | 10 | 0.0 | 0.5 | ----- | 0.0 | 0.9 | ----- | 0.0 | 1.3 | ----- |
| Hysterectomy | 12 | 0.0 | 0.7 | ----- | 0.0 | 1.3 | ----- | 0.0 | 2.0 | ----- |

* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# HATO REY COMMUNITY HOSPITAL
Medicare Provider Number: 400027

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

DEMOGRAPHICS:

| | |
|---|---|
| Average age at admission | 72.4 years |
| Proportion female | 60.2 % |

ADMISSION SOURCES/TYPES:

| | |
|---|---|
| Referred by personal or HMO physician | 64.2 % |
| Transferred from skilled nursing facility | 0.1 % |
| Admitted for elective procedure | 40.1 % |
| Admitted for emergency | 37.6 % |

COMORBIDITIES:

| | |
|---|---|
| Cancer | 1.6 % |
| Chronic cardiovascular disease | 43.8 % |
| Chronic liver disease | 1.6 % |
| Chronic renal disease | 2.1 % |
| Chronic pulmonary disease | 12.9 % |
| Cerebrovascular degeneration | 0.9 % |
| Diabetes mellitus | 20.5 % |

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS*

ORIGIN OF MEDICARE PATIENT ADMISSION:

| | |
|---|---|
| County/City | 52.2% |
| State | 46.6% |
| Outside State | 1.2% |
| Total | 100.0% |

MEDICARE AVERAGE LENGTH OF STAY:

| | |
|---|---|
| Hospital | 5.4 Days |
| State | 7.2 Days |
| National | 8.6 Days |

## HOSPITAL CHARACTERISTICS*

SOURCE: Health Care Financing Administration (OSCAR)** - Survey Year 1990

PROFILE:

| | |
|---|---|
| Total Beds | 224 |
| Ownership/Control | Private, For Profit |
| Case Mix Index (CMI) | 1.0615 |

STAFFING:

| | |
|---|---|
| Medical Residents/Interns | 17 |
| Registered Nurses | 15 |
| Licensed Practical Nurses | 75 |

SPECIALTY SERVICES:

| | |
|---|---|
| Burn Unit | No |
| Coronary Care Unit | Yes |
| Hospice Care | No |
| Intensive Care Unit | No |
| Organ Transplant | No |
| Trauma Center | No |

OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

| | |
|---|---|
| Alcohol/Drug | No |
| Rehabilitation | No |
| Psychiatric | No |
| Medicare Swing Beds | No |

** Except for CMI

* Not used in calculating mortality rates

# HOSPITAL DE LA CONCEPCION

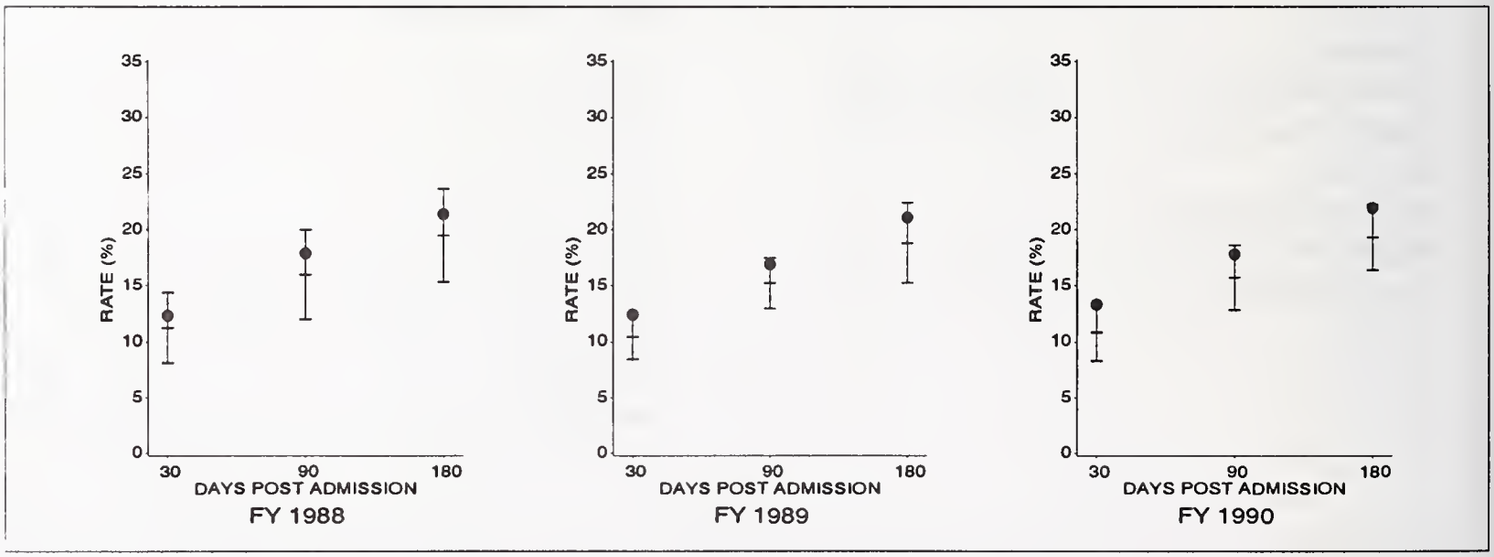
41 LUNA ST
SAN GERMAN, PR 00753
Medicare Provider Number: 400021

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY | NUMBER OF CASES | MORTALITY RATES (%) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 30 DAYS | | | 90 DAYS | | | 180 DAYS | | |
| | | OBS | PRED | SD* | OBS | PRED | SD* | OBS | PRED | SD* |
| ALL CAUSES | 1372 | 13.3 | 10.8 | 1.3 | 17.8 | 15.7 | 1.5 | 21.9 | 19.3 | 1.5 |
| CONDITIONS: | | | | | | | | | | |
| Acute Myocardial Infarction | 52 | 26.9 | 25.5 | 7.5 | 28.8 | 28.7 | 7.6 | 34.6 | 31.6 | 7.2 |
| Congestive Heart Failure | 90 | 18.9 | 15.6 | 4.4 | 21.1 | 23.9 | 4.8 | 25.6 | 29.8 | 5.5 |
| Pneumonia/Influenza | 56 | 42.9 | 21.7 | 9.4 | 46.4 | 29.2 | 9.4 | 50.0 | 33.7 | 8.9 |
| Chronic Obstructive Pulmonary Disease | 5 | 20.0 | 6.7 | ----- | 20.0 | 11.1 | ----- | 40.0 | 15.5 | ----- |
| Transient Cerebral Ischemia | 14 | 0.0 | 1.4 | ----- | 7.1 | 3.1 | ----- | 7.1 | 5.0 | ----- |
| Stroke | 60 | 26.7 | 22.8 | 7.4 | 31.7 | 29.9 | 6.6 | 40.0 | 33.5 | 8.1 |
| Hip Fracture | 22 | 13.6 | 8.1 | ----- | 13.6 | 14.3 | ----- | 27.3 | 18.6 | ----- |
| Sepsis | 34 | 44.1 | 32.2 | ----- | 55.9 | 39.2 | ----- | 61.8 | 44.1 | ----- |
| PROCEDURES: | | | | | | | | | | |
| Angioplasty | 0 | | | | | | | | | |
| Coronary Artery Bypass Graft | 0 | | | | | | | | | |
| Initial Pacemaker Insertion | 9 | 0.0 | 3.5 | ----- | 0.0 | 5.8 | ----- | 0.0 | 8.0 | ----- |
| Carotid Endarterectomy | 0 | | | | | | | | | |
| Hip Replacement/Reconstruction | 4 | 0.0 | 6.6 | ----- | 0.0 | 12.0 | ----- | 0.0 | 16.0 | ----- |
| Open Reduction of Hip Fracture | 15 | 13.3 | 7.1 | ----- | 13.3 | 13.5 | ----- | 33.3 | 18.0 | ----- |
| Prostatectomy | 60 | 3.3 | 0.7 | 1.9 | 6.7 | 1.6 | 3.1 | 8.3 | 2.8 | 3.9 |
| Cholecystectomy | 56 | 1.8 | 2.2 | 3.9 | 5.4 | 3.7 | 3.5 | 5.4 | 4.7 | 3.7 |
| Hysterectomy | 11 | 9.1 | 0.2 | ----- | 9.1 | 0.4 | ----- | 9.1 | 0.6 | ----- |

* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# HOSPITAL DE LA CONCEPCION

Medicare Provider Number: 400021

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

DEMOGRAPHICS:

| | |
|---|---|
| Average age at admission | 75.3 years |
| Proportion female | 48.8 % |

ADMISSION SOURCES/TYPES:

| | |
|---|---|
| Referred by personal or HMO physician | 48.8 % |
| Transferred from skilled nursing facility | 0.0 % |
| Admitted for elective procedure | 19.9 % |
| Admitted for emergency | 47.5 % |

COMORBIDITIES:

| | |
|---|---|
| Cancer | 5.0 % |
| Chronic cardiovascular disease | 44.5 % |
| Chronic liver disease | 1.6 % |
| Chronic renal disease | 6.8 % |
| Chronic pulmonary disease | 9.0 % |
| Cerebrovascular degeneration | 0.9 % |
| Diabetes mellitus | 22.7 % |

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS*

ORIGIN OF MEDICARE PATIENT ADMISSION:

| | |
|---|---|
| County/City | 28.3% |
| State | 69.9% |
| Outside State | 1.8% |
| Total | 100.0% |

MEDICARE AVERAGE LENGTH OF STAY:

| | |
|---|---|
| Hospital | 7.4 Days |
| State | 7.2 Days |
| National | 8.6 Days |

## HOSPITAL CHARACTERISTICS*

SOURCE: Health Care Financing Administration (OSCAR)** - Survey Year 1990

PROFILE:

| | |
|---|---|
| Total Beds | 167 |
| Ownership/Control | Church |
| Case Mix Index (CMI) | 1.2824 |

STAFFING:

| | |
|---|---|
| Medical Residents/Interns | 4 |
| Registered Nurses | 78 |
| Licensed Practical Nurses | 34 |

SPECIALTY SERVICES:

| | |
|---|---|
| Burn Unit | No |
| Coronary Care Unit | No |
| Hospice Care | No |
| Intensive Care Unit | Yes |
| Organ Transplant | No |
| Trauma Center | No |

OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

| | |
|---|---|
| Alcohol/Drug | No |
| Rehabilitation | No |
| Psychiatric | No |
| Medicare Swing Beds | No |

** Except for CMI

*** Not used in calculating mortality rates**

# HOSPITAL DR DOMIQUEZ

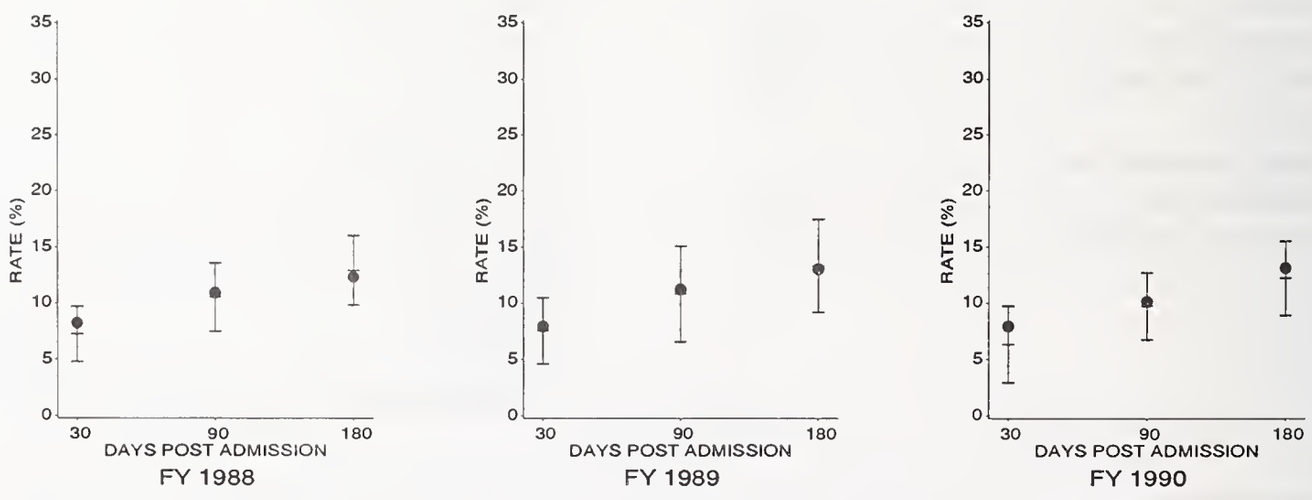
P O BOX 967
HUMACAO, PR 00661
Medicare Provider Number: 400011

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY | NUMBER OF CASES | MORTALITY RATES (%) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 30 DAYS | | | 90 DAYS | | | 180 DAYS | | |
| | | OBS | PRED | SD* | OBS | PRED | SD* | OBS | PRED | SD* |
| ALL CAUSES | 496 | 7.9 | 6.3 | 1.7 | 10.1 | 9.7 | 1.5 | 13.1 | 12.2 | 1.7 |
| CONDITIONS: | | | | | | | | | | |
| Acute Myocardial Infarction | 12 | 41.7 | 25.5 | ----- | 41.7 | 27.8 | ----- | 41.7 | 30.0 | ----- |
| Congestive Heart Failure | 15 | 13.3 | 16.4 | ----- | 20.0 | 25.1 | ----- | 33.3 | 31.1 | ----- |
| Pneumonia/Influenza | 19 | 21.1 | 16.3 | ----- | 21.1 | 22.3 | ----- | 31.6 | 26.9 | ----- |
| Chronic Obstructive Pulmonary Disease | 6 | 16.7 | 12.1 | ----- | 33.3 | 19.1 | ----- | 33.3 | 25.2 | ----- |
| Transient Cerebral Ischemia | 6 | 0.0 | 1.4 | ----- | 0.0 | 3.1 | ----- | 0.0 | 5.3 | ----- |
| Stroke | 15 | 26.7 | 22.5 | ----- | 26.7 | 28.2 | ----- | 33.3 | 32.4 | ----- |
| Hip Fracture | 8 | 12.5 | 7.9 | ----- | 25.0 | 13.8 | ----- | 25.0 | 17.8 | ----- |
| Sepsis | 4 | 50.0 | 25.9 | ----- | 50.0 | 30.1 | ----- | 50.0 | 33.7 | ----- |
| PROCEDURES: | | | | | | | | | | |
| Angioplasty | 0 | | | | | | | | | |
| Coronary Artery Bypass Graft | 0 | | | | | | | | | |
| Initial Pacemaker Insertion | 0 | | | | | | | | | |
| Carotid Endarterectomy | 0 | | | | | | | | | |
| Hip Replacement/Reconstruction | 1 | 100.0 | 12.5 | ----- | 100.0 | 21.0 | ----- | 100.0 | 26.3 | ----- |
| Open Reduction of Hip Fracture | 3 | 0.0 | 6.0 | ----- | 33.3 | 11.2 | ----- | 33.3 | 15.1 | ----- |
| Prostatectomy | 34 | 0.0 | 0.5 | ----- | 2.9 | 1.1 | ----- | 2.9 | 2.0 | ----- |
| Cholecystectomy | 21 | 0.0 | 1.0 | ----- | 0.0 | 2.1 | ----- | 9.5 | 3.3 | ----- |
| Hysterectomy | 1 | 0.0 | 0.1 | ----- | 0.0 | 0.2 | ----- | 0.0 | 0.3 | ----- |

* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# HOSPITAL DR DOMIQUEZ

Medicare Provider Number: 400011

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

DEMOGRAPHICS:

| | |
|---|---|
| Average age at admission | 71.9 years |
| Proportion female | 44.9 % |

ADMISSION SOURCES/TYPES:

| | |
|---|---|
| Referred by personal or HMO physician | 46.5 % |
| Transferred from skilled nursing facility | 0.0 % |
| Admitted for elective procedure | 24.5 % |
| Admitted for emergency | 16.9 % |

COMORBIDITIES:

| | |
|---|---|
| Cancer | 3.2 % |
| Chronic cardiovascular disease | 44.5 % |
| Chronic liver disease | 1.6 % |
| Chronic renal disease | 1.0 % |
| Chronic pulmonary disease | 17.1 % |
| Cerebrovascular degeneration | 0.2 % |
| Diabetes mellitus | 17.1 % |

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS*

ORIGIN OF MEDICARE PATIENT ADMISSION:

| | |
|---|---|
| County/City | 30.6% |
| State | 68.5% |
| Outside State | 0.9% |
| Total | 100.0% |

MEDICARE AVERAGE LENGTH OF STAY:

| | |
|---|---|
| Hospital | 6.2 Days |
| State | 7.2 Days |
| National | 8.6 Days |

## HOSPITAL CHARACTERISTICS*

SOURCE: Health Care Financing Administration (OSCAR)** - Survey Year 1990

PROFILE:

| | |
|---|---|
| Total Beds | 62 |
| Ownership/Control | Private, For Profit |
| Case Mix Index (CMI) | 1.0615 |

STAFFING:

| | |
|---|---|
| Medical Residents/Interns | 6 |
| Registered Nurses | 46 |
| Licensed Practical Nurses | 33 |

SPECIALTY SERVICES:

| | |
|---|---|
| Burn Unit | No |
| Coronary Care Unit | Yes |
| Hospice Care | No |
| Intensive Care Unit | Yes |
| Organ Transplant | No |
| Trauma Center | No |

OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

| | |
|---|---|
| Alcohol/Drug | No |
| Rehabilitation | No |
| Psychiatric | No |
| Medicare Swing Beds | No |

** Except for CMI

*** Not used in calculating mortality rates**

# HOSPITAL DR SUSONI INC

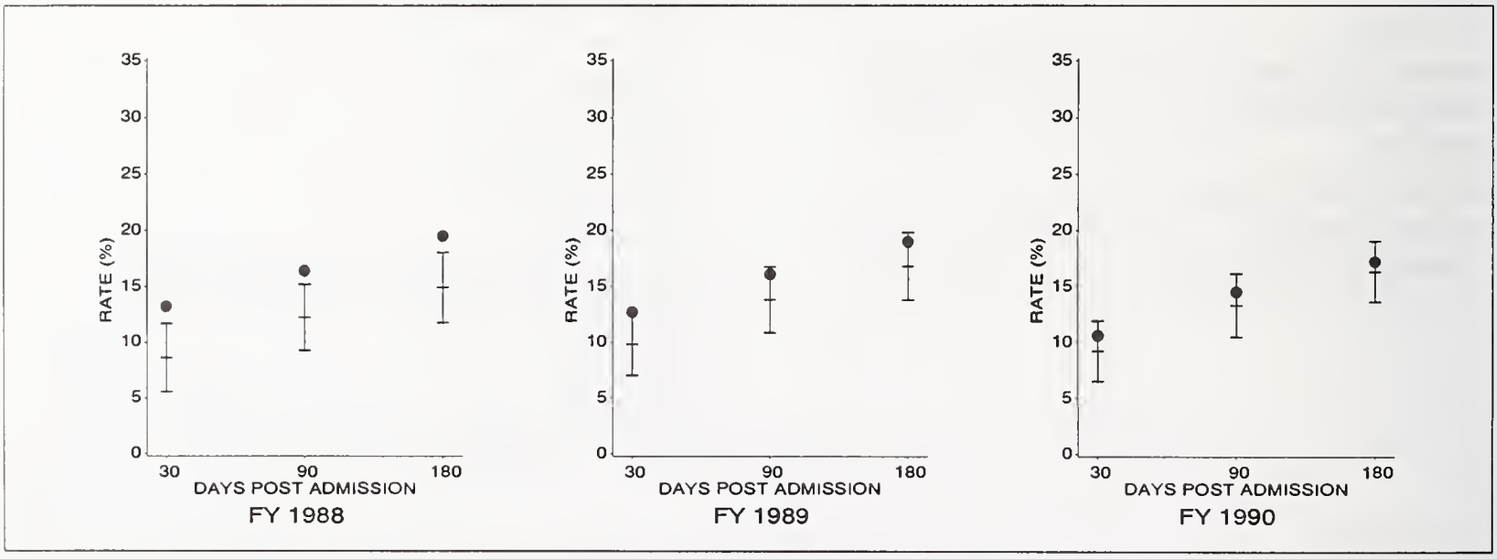
55 PALM ST, BOX 1298
ARECIBO, PR 00613
Medicare Provider Number: 400117

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY | NUMBER OF CASES | MORTALITY RATES (%) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 30 DAYS | | | 90 DAYS | | | 180 DAYS | | |
| | | OBS | PRED | SD* | OBS | PRED | SD* | OBS | PRED | SD* |
| ALL CAUSES | 1334 | 10.6 | 9.2 | 1.4 | 14.5 | 13.3 | 1.4 | 17.2 | 16.3 | 1.4 |
| CONDITIONS: | | | | | | | | | | |
| Acute Myocardial Infarction | 54 | 31.5 | 21.7 | 12.5 | 33.3 | 24.4 | 13.1 | 35.2 | 27.1 | 13.8 |
| Congestive Heart Failure | 73 | 16.4 | 12.7 | 5.7 | 27.4 | 20.4 | 9.0 | 34.2 | 26.4 | 9.5 |
| Pneumonia/Influenza | 67 | 10.4 | 17.3 | 8.1 | 13.4 | 23.0 | 8.6 | 16.4 | 26.6 | 8.6 |
| Chronic Obstructive Pulmonary Disease | 19 | 5.3 | 6.0 | ----- | 10.5 | 12.5 | ----- | 15.8 | 18.0 | ----- |
| Transient Cerebral Ischemia | 16 | 0.0 | 1.7 | ----- | 0.0 | 3.9 | ----- | 0.0 | 6.3 | ----- |
| Stroke | 45 | 24.4 | 21.5 | ----- | 26.7 | 27.6 | ----- | 28.9 | 31.5 | ----- |
| Hip Fracture | 23 | 13.0 | 10.0 | ----- | 21.7 | 16.3 | ----- | 26.1 | 20.5 | ----- |
| Sepsis | 13 | 53.8 | 36.0 | ----- | 61.5 | 43.0 | ----- | 69.2 | 48.9 | ----- |
| PROCEDURES: | | | | | | | | | | |
| Angioplasty | 0 | | | | | | | | | |
| Coronary Artery Bypass Graft | 0 | | | | | | | | | |
| Initial Pacemaker Insertion | 5 | 0.0 | 3.9 | ----- | 20.0 | 7.4 | ----- | 20.0 | 10.7 | ----- |
| Carotid Endarterectomy | 1 | 0.0 | 1.0 | ----- | 0.0 | 2.0 | ----- | 0.0 | 3.1 | ----- |
| Hip Replacement/Reconstruction | 11 | 0.0 | 7.8 | ----- | 9.1 | 14.3 | ----- | 18.2 | 19.2 | ----- |
| Open Reduction of Hip Fracture | 10 | 20.0 | 8.7 | ----- | 30.0 | 14.3 | ----- | 30.0 | 17.4 | ----- |
| Prostatectomy | 29 | 0.0 | 1.3 | ----- | 6.9 | 2.6 | ----- | 10.3 | 4.0 | ----- |
| Cholecystectomy | 53 | 3.8 | 2.0 | 3.7 | 7.5 | 3.5 | 5.4 | 7.5 | 4.6 | 6.9 |
| Hysterectomy | 27 | 0.0 | 0.1 | ----- | 0.0 | 0.3 | ----- | 0.0 | 0.5 | ----- |

* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# HOSPITAL DR SUSONI INC

Medicare Provider Number: 400117

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

DEMOGRAPHICS:

| | |
|---|---|
| Average age at admission | 73.1 years |
| Proportion female | 52.5 % |

ADMISSION SOURCES/TYPES:

| | |
|---|---|
| Referred by personal or HMO physician | 37.9 % |
| Transferred from skilled nursing facility | 0.0 % |
| Admitted for elective procedure | 14.5 % |
| Admitted for emergency | 83.6 % |

COMORBIDITIES:

| | |
|---|---|
| Cancer | 2.1 % |
| Chronic cardiovascular disease | 48.1 % |
| Chronic liver disease | 2.5 % |
| Chronic renal disease | 1.6 % |
| Chronic pulmonary disease | 18.6 % |
| Cerebrovascular degeneration | 1.0 % |
| Diabetes mellitus | 17.7 % |

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS*

ORIGIN OF MEDICARE PATIENT ADMISSION:

| | |
|---|---|
| County/City | 50.9% |
| State | 48.0% |
| Outside State | 1.1% |
| Total | 100.0% |

MEDICARE AVERAGE LENGTH OF STAY:

| | |
|---|---|
| Hospital | 6.2 Days |
| State | 7.2 Days |
| National | 8.6 Days |

## HOSPITAL CHARACTERISTICS*

SOURCE: Health Care Financing Administration (OSCAR)** - Survey Year 1991

PROFILE:

| | |
|---|---|
| Total Beds | 138 |
| Ownership/Control | Private, For Profit |
| Case Mix Index (CMI) | 1.1486 |

STAFFING:

| | |
|---|---|
| Medical Residents/Interns | 0 |
| Registered Nurses | 126 |
| Licensed Practical Nurses | 65 |

SPECIALTY SERVICES:

| | |
|---|---|
| Burn Unit | No |
| Coronary Care Unit | No |
| Hospice Care | No |
| Intensive Care Unit | Yes |
| Organ Transplant | No |
| Trauma Center | No |

OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

| | |
|---|---|
| Alcohol/Drug | No |
| Rehabilitation | Yes |
| Psychiatric | No |
| Medicare Swing Beds | No |

** Except for CMI

*** Not used in calculating mortality rates**

# HOSPITAL DR TITO MATTEI

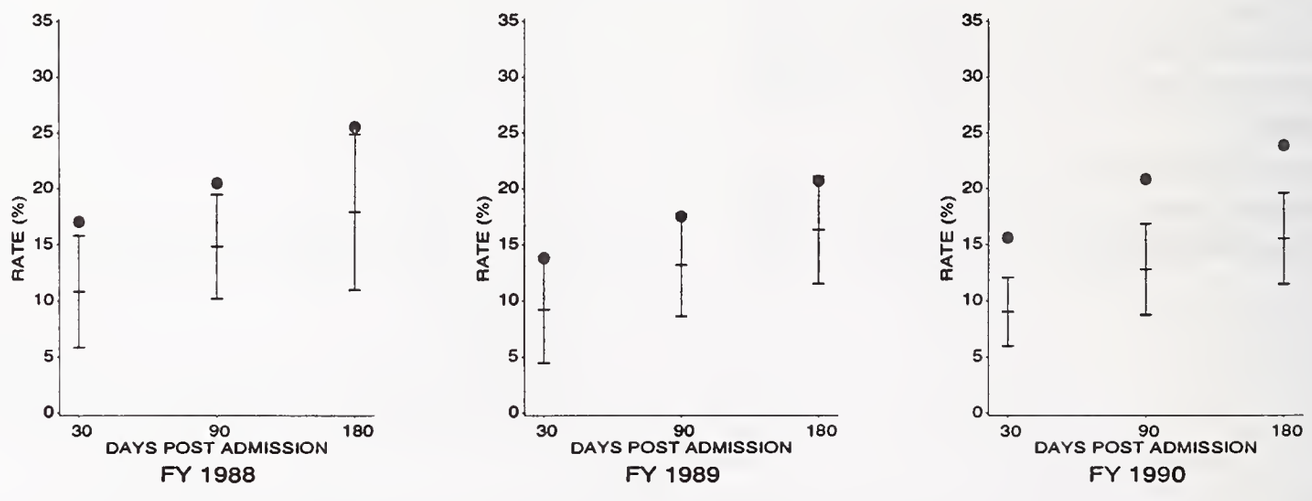
ROAD 128, BOX 68
YAUCO, PR 00768
Medicare Provider Number: 400110

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY | NUMBER OF CASES | MORTALITY RATES (%) 30 DAYS OBS | 30 DAYS PRED | 30 DAYS SD* | 90 DAYS OBS | 90 DAYS PRED | 90 DAYS SD* | 180 DAYS OBS | 180 DAYS PRED | 180 DAYS SD* |
|---|---|---|---|---|---|---|---|---|---|---|
| ALL CAUSES | 462 | 15.6 | 9.0 | 1.5 | 20.8 | 12.7 | 2.0 | 23.8 | 15.5 | 2.0 |
| CONDITIONS: | | | | | | | | | | |
| Acute Myocardial Infarction | 38 | 36.8 | 28.1 | ----- | 39.5 | 30.6 | ----- | 42.1 | 33.2 | ----- |
| Congestive Heart Failure | 18 | 33.3 | 13.2 | ----- | 38.9 | 20.3 | ----- | 61.1 | 26.3 | ----- |
| Pneumonia/Influenza | 18 | 38.9 | 16.4 | ----- | 50.0 | 21.4 | ----- | 50.0 | 25.6 | ----- |
| Chronic Obstructive Pulmonary Disease | 5 | 20.0 | 4.1 | ----- | 20.0 | 7.9 | ----- | 40.0 | 11.6 | ----- |
| Transient Cerebral Ischemia | 0 | | | | | | | | | |
| Stroke | 14 | 35.7 | 21.5 | ----- | 42.9 | 27.9 | ----- | 42.9 | 32.1 | ----- |
| Hip Fracture | 0 | | | | | | | | | |
| Sepsis | 3 | 33.3 | 23.1 | ----- | 66.7 | 27.7 | ----- | 66.7 | 32.4 | ----- |
| PROCEDURES: | | | | | | | | | | |
| Angioplasty | 0 | | | | | | | | | |
| Coronary Artery Bypass Graft | 0 | | | | | | | | | |
| Initial Pacemaker Insertion | 0 | | | | | | | | | |
| Carotid Endarterectomy | 0 | | | | | | | | | |
| Hip Replacement/Reconstruction | 0 | | | | | | | | | |
| Open Reduction of Hip Fracture | 0 | | | | | | | | | |
| Prostatectomy | 28 | 0.0 | 0.7 | ----- | 3.6 | 1.4 | ----- | 3.6 | 2.4 | ----- |
| Cholecystectomy | 12 | 0.0 | 1.3 | ----- | 0.0 | 2.2 | ----- | 0.0 | 2.9 | ----- |
| Hysterectomy | 12 | 8.3 | 0.2 | ----- | 8.3 | 0.4 | ----- | 8.3 | 0.7 | ----- |

* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# HOSPITAL DR TITO MATTEI
Medicare Provider Number: 400110

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

DEMOGRAPHICS:

| | |
|---|---|
| Average age at admission | 72.2 years |
| Proportion female | 43.1 % |

ADMISSION SOURCES/TYPES:

| | |
|---|---|
| Referred by personal or HMO physician | 11.0 % |
| Transferred from skilled nursing facility | 0.0 % |
| Admitted for elective procedure | 19.7 % |
| Admitted for emergency | 75.1 % |

COMORBIDITIES:

| | |
|---|---|
| Cancer | 2.6 % |
| Chronic cardiovascular disease | 32.0 % |
| Chronic liver disease | 0.6 % |
| Chronic renal disease | 0.4 % |
| Chronic pulmonary disease | 9.5 % |
| Cerebrovascular degeneration | 1.3 % |
| Diabetes mellitus | 25.5 % |

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS*

ORIGIN OF MEDICARE PATIENT ADMISSION:

| | |
|---|---|
| County/City | 45.6% |
| State | 53.0% |
| Outside State | 1.4% |
| Total | 100.0% |

MEDICARE AVERAGE LENGTH OF STAY:

| | |
|---|---|
| Hospital | 8.8 Days |
| State | 7.2 Days |
| National | 8.6 Days |

## HOSPITAL CHARACTERISTICS*

SOURCE: Health Care Financing Administration (OSCAR)** - Survey Year 1991

PROFILE:

| | |
|---|---|
| Total Beds | 186 |
| Ownership.Control | Private, Non-Profit |
| Case Mix Index (CMI) | 1.2232 |

STAFFING:

| | |
|---|---|
| Medical Residents/Interns | 0 |
| Registered Nurses | 99 |
| Licensed Practical Nurses | 41 |

SPECIALTY SERVICES:

| | |
|---|---|
| Burn Unit | No |
| Coronary Care Unit | No |
| Hospice Care | No |
| Intensive Care Unit | Yes |
| Organ Transplant | No |
| Trauma Center | No |

OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

| | |
|---|---|
| Alcohol/Drug | No |
| Rehabilitation | No |
| Psychiatric | Yes |
| Medicare Swing Beds | No |

** Except for CMI

*** Not used in calculating mortality rates**

# HOSPITAL HERNANDOS MELENDEZ

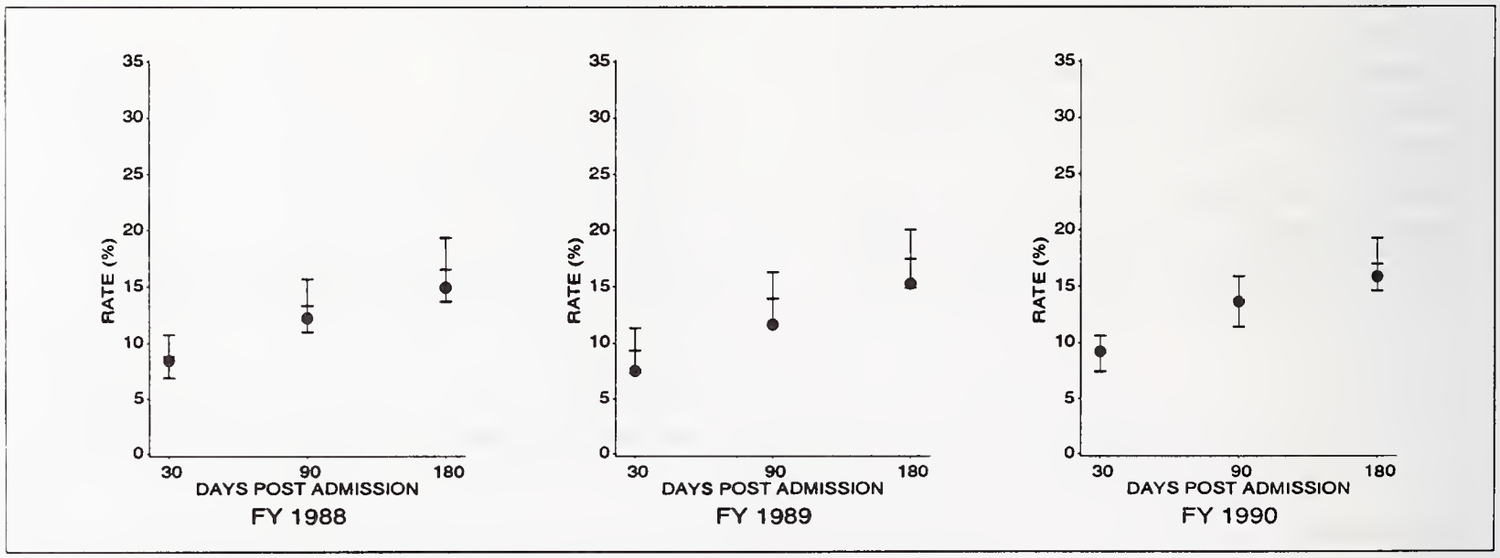
P O BOX 306
BAYAMON, PR 00619
Medicare Provider Number: 400032

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY | NUMBER OF CASES | MORTALITY RATES (%) 30 DAYS OBS | 30 DAYS PRED | 30 DAYS SD* | 90 DAYS OBS | 90 DAYS PRED | 90 DAYS SD* | 180 DAYS OBS | 180 DAYS PRED | 180 DAYS SD* |
|---|---|---|---|---|---|---|---|---|---|---|
| ALL CAUSES | 1519 | 9.2 | 9.0 | 0.8 | 13.6 | 13.6 | 1.1 | 15.8 | 16.9 | 1.2 |
| CONDITIONS: | | | | | | | | | | |
| Acute Myocardial Infarction | 52 | 28.8 | 28.2 | 6.8 | 34.6 | 31.2 | 6.7 | 40.4 | 34.0 | 7.0 |
| Congestive Heart Failure | 63 | 11.1 | 12.3 | 4.4 | 17.5 | 20.2 | 5.6 | 23.8 | 25.9 | 5.8 |
| Pneumonia/Influenza | 63 | 15.9 | 14.3 | 5.5 | 25.4 | 19.2 | 7.8 | 28.6 | 22.8 | 7.4 |
| Chronic Obstructive Pulmonary Disease | 10 | 10.0 | 7.2 | ----- | 30.0 | 12.3 | ----- | 30.0 | 16.8 | ----- |
| Transient Cerebral Ischemia | 13 | 0.0 | 1.6 | ----- | 0.0 | 3.5 | ----- | 0.0 | 5.7 | ----- |
| Stroke | 75 | 24.0 | 20.9 | 5.4 | 26.7 | 28.4 | 5.5 | 29.3 | 32.5 | 6.2 |
| Hip Fracture | 10 | 10.0 | 6.5 | ----- | 10.0 | 12.1 | ----- | 20.0 | 16.3 | ----- |
| Sepsis | 18 | 50.0 | 36.5 | ----- | 55.6 | 43.2 | ----- | 61.1 | 47.7 | ----- |
| PROCEDURES: | | | | | | | | | | |
| Angioplasty | 0 | | | | | | | | | |
| Coronary Artery Bypass Graft | 0 | | | | | | | | | |
| Initial Pacemaker Insertion | 6 | 0.0 | 3.0 | ----- | 0.0 | 5.6 | ----- | 0.0 | 7.7 | ----- |
| Carotid Endarterectomy | 0 | | | | | | | | | |
| Hip Replacement/Reconstruction | 2 | 50.0 | 6.0 | ----- | 50.0 | 11.0 | ----- | 50.0 | 15.7 | ----- |
| Open Reduction of Hip Fracture | 6 | 0.0 | 5.7 | ----- | 0.0 | 11.3 | ----- | 16.7 | 15.8 | ----- |
| Prostatectomy | 98 | 0.0 | 0.6 | 0.9 | 1.0 | 1.4 | 1.3 | 1.0 | 2.5 | 2.0 |
| Cholecystectomy | 52 | 3.8 | 3.9 | 3.2 | 3.8 | 6.1 | 4.4 | 7.7 | 7.5 | 5.2 |
| Hysterectomy | 25 | 0.0 | 0.1 | ----- | 4.0 | 0.2 | ----- | 4.0 | 0.4 | ----- |

* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# HOSPITAL HERNANDOS MELENDEZ

Medicare Provider Number: 400032

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

DEMOGRAPHICS:

| | |
|---|---|
| Average age at admission | 72.9 years |
| Proportion female | 53.7 % |

ADMISSION SOURCES/TYPES:

| | |
|---|---|
| Referred by personal or HMO physician | 47.1 % |
| Transferred from skilled nursing facility | 0.0 % |
| Admitted for elective procedure | 18.0 % |
| Admitted for emergency | 80.3 % |

COMORBIDITIES:

| | |
|---|---|
| Cancer | 6.6 % |
| Chronic cardiovascular disease | 34.6 % |
| Chronic liver disease | 2.2 % |
| Chronic renal disease | 2.6 % |
| Chronic pulmonary disease | 19.7 % |
| Cerebrovascular degeneration | 2.0 % |
| Diabetes mellitus | 24.7 % |

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS*

ORIGIN OF MEDICARE PATIENT ADMISSION:

| | |
|---|---|
| County/City | 44.8% |
| State | 54.0% |
| Outside State | 1.2% |
| Total | 100.0% |

MEDICARE AVERAGE LENGTH OF STAY:

| | |
|---|---|
| Hospital | 6.8 Days |
| State | 7.2 Days |
| National | 8.6 Days |

## HOSPITAL CHARACTERISTICS*

SOURCE: Health Care Financing Administration (OSCAR)** - Survey Year 1990

PROFILE:

| | |
|---|---|
| Total Beds | 203 |
| Ownership/Control | Private, For Profit |
| Case Mix Index (CMI) | 1.1660 |

STAFFING:

| | |
|---|---|
| Medical Residents/Interns | 1 |
| Registered Nurses | 93 |
| Licensed Practical Nurses | 76 |

SPECIALTY SERVICES:

| | |
|---|---|
| Burn Unit | No |
| Coronary Care Unit | Yes |
| Hospice Care | No |
| Intensive Care Unit | Yes |
| Organ Transplant | Yes |
| Trauma Center | No |

OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

| | |
|---|---|
| Alcohol/Drug | No |
| Rehabilitation | No |
| Psychiatric | No |
| Medicare Swing Beds | No |

** Except for CMI

*** Not used in calculating mortality rates**

# HOSPITAL INTERAMERICANO DE MEDICINA

AVE LUIS MUNOZ MARIN, BOX 1744
CAGUAS, PR 00625
Medicare Provider Number: 400120

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY | NUMBER OF CASES | MORTALITY RATES (%) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 30 DAYS | | | 90 DAYS | | | 180 DAYS | | |
| | | OBS | PRED | SD* | OBS | PRED | SD* | OBS | PRED | SD* |
| ALL CAUSES | 2523 | 6.3 | 8.6 | 0.7 | 10.9 | 12.9 | 0.8 | 13.6 | 16.1 | 0.9 |
| CONDITIONS: | | | | | | | | | | |
| Acute Myocardial Infarction | 68 | 22.1 | 27.5 | 6.6 | 27.9 | 30.3 | 5.9 | 29.4 | 33.0 | 6.1 |
| Congestive Heart Failure | 129 | 5.4 | 13.3 | 4.3 | 12.4 | 21.4 | 4.9 | 16.3 | 27.5 | 5.7 |
| Pneumonia/Influenza | 225 | 9.3 | 14.7 | 3.6 | 13.8 | 20.0 | 3.6 | 17.8 | 23.7 | 3.6 |
| Chronic Obstructive Pulmonary Disease | 8 | 12.5 | 11.4 | ----- | 25.0 | 19.4 | ----- | 25.0 | 24.9 | ----- |
| Transient Cerebral Ischemia | 38 | 2.6 | 1.6 | ----- | 5.3 | 3.7 | ----- | 5.3 | 6.2 | ----- |
| Stroke | 82 | 15.9 | 18.9 | 6.3 | 24.4 | 25.6 | 6.0 | 28.0 | 29.4 | 5.1 |
| Hip Fracture | 36 | 2.8 | 5.6 | ----- | 11.1 | 9.7 | ----- | 13.9 | 12.6 | ----- |
| Sepsis | 9 | 11.1 | 21.0 | ----- | 11.1 | 27.3 | ----- | 22.2 | 31.2 | ----- |
| PROCEDURES: | | | | | | | | | | |
| Angioplasty | 0 | | | | | | | | | |
| Coronary Artery Bypass Graft | 0 | | | | | | | | | |
| Initial Pacemaker Insertion | 30 | 0.0 | 2.7 | ----- | 3.3 | 4.9 | ----- | 3.3 | 7.0 | ----- |
| Carotid Endarterectomy | 1 | 0.0 | 1.7 | ----- | 0.0 | 3.5 | ----- | 0.0 | 6.0 | ----- |
| Hip Replacement/Reconstruction | 17 | 0.0 | 2.9 | ----- | 0.0 | 5.3 | ----- | 0.0 | 7.2 | ----- |
| Open Reduction of Hip Fracture | 16 | 0.0 | 6.5 | ----- | 18.8 | 11.4 | ----- | 25.0 | 14.8 | ----- |
| Prostatectomy | 97 | 1.0 | 0.8 | 1.6 | 2.1 | 1.8 | 2.6 | 3.1 | 3.2 | 3.9 |
| Cholecystectomy | 86 | 3.5 | 2.5 | 2.1 | 5.8 | 4.7 | 2.6 | 5.8 | 6.2 | 2.9 |
| Hysterectomy | 51 | 0.0 | 0.1 | ----- | 0.0 | 0.3 | ----- | 0.0 | 0.5 | ----- |

* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES

No Graphs are presented when the standard deviation was not computed for one or more of the three fiscal years, (1988, 1989, or 1990)

# HOSPITAL INTERAMERICANO DE MEDICINA

Medicare Provider Number: 400120

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

DEMOGRAPHICS:

| | |
|---|---|
| Average age at admission | 73.1 years |
| Proportion female | 56.8 % |

ADMISSION SOURCES/TYPES:

| | |
|---|---|
| Referred by personal or HMO physician | 46.2 % |
| Transferred from skilled nursing facility | 0.0 % |
| Admitted for elective procedure | 16.8 % |
| Admitted for emergency | 51.0 % |

COMORBIDITIES:

| | |
|---|---|
| Cancer | 3.8 % |
| Chronic cardiovascular disease | 30.2 % |
| Chronic liver disease | 1.0 % |
| Chronic renal disease | 1.1 % |
| Chronic pulmonary disease | 27.0 % |
| Cerebrovascular degeneration | 0.0 % |
| Diabetes mellitus | 19.4 % |

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS*

ORIGIN OF MEDICARE PATIENT ADMISSION:

| | |
|---|---|
| County/City | 56.0% |
| State | 42.9% |
| Outside State | 1.1% |
| Total | 100.0% |

MEDICARE AVERAGE LENGTH OF STAY:

| | |
|---|---|
| Hospital | 8.7 Days |
| State | 7.2 Days |
| National | 8.6 Days |

## HOSPITAL CHARACTERISTICS*

SOURCE: Health Care Financing Administration (OSCAR)** - Survey Year 1991

PROFILE:

| | |
|---|---|
| Total Beds | 300 |
| Ownership/Control | Private, For Profit |
| Case Mix Index (CMI) | 1.2939 |

STAFFING:

| | |
|---|---|
| Medical Residents/Interns | 13 |
| Registered Nurses | 217 |
| Licensed Practical Nurses | 100 |

SPECIALTY SERVICES:

| | |
|---|---|
| Burn Unit | No |
| Coronary Care Unit | No |
| Hospice Care | No |
| Intensive Care Unit | Yes |
| Organ Transplant | No |
| Trauma Center | No |

OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

| | |
|---|---|
| Alcohol/Drug | No |
| Rehabilitation | No |
| Psychiatric | No |
| Medicare Swing Beds | No |

** Except for CMI

*** Not used in calculating mortality rates**

# HOSPITAL MATILDE BRENES

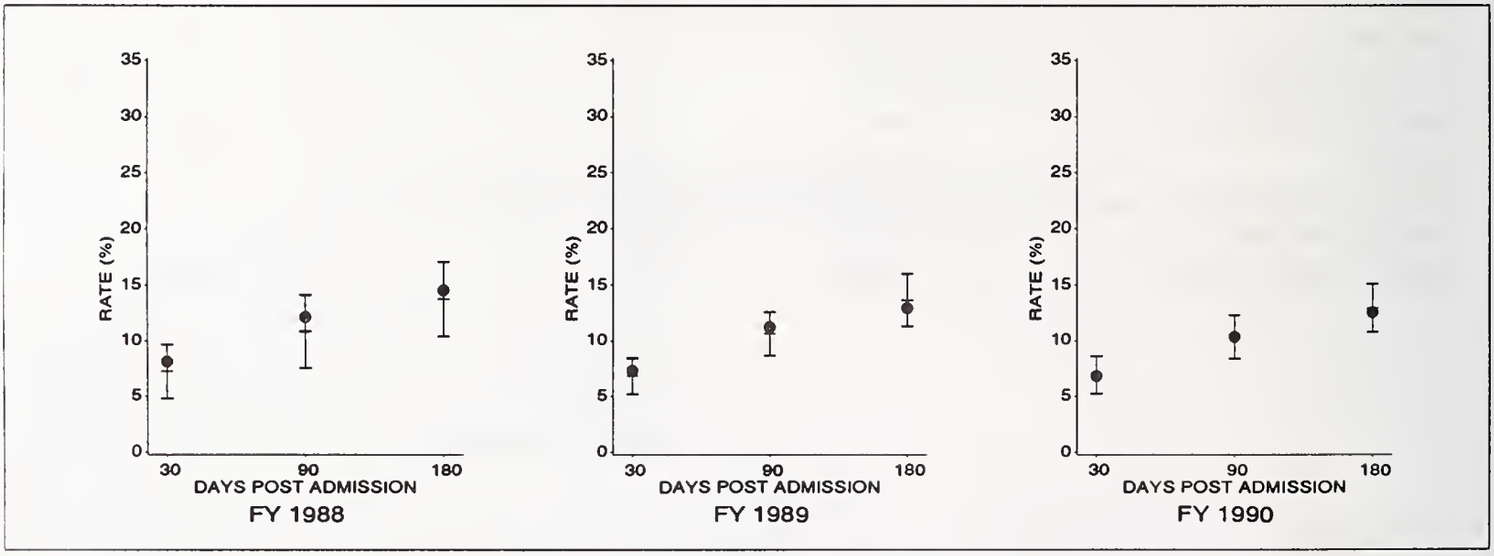
BAYAMON, PR 00619
Medicare Provider Number: 400102

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY | NUMBER OF CASES | MORTALITY RATES (%) 30 DAYS OBS | 30 DAYS PRED | 30 DAYS SD* | 90 DAYS OBS | 90 DAYS PRED | 90 DAYS SD* | 180 DAYS OBS | 180 DAYS PRED | 180 DAYS SD* |
|---|---|---|---|---|---|---|---|---|---|---|
| ALL CAUSES | 1006 | 6.8 | 6.9 | 0.8 | 10.3 | 10.3 | 1.0 | 12.5 | 12.9 | 1.1 |
| CONDITIONS: | | | | | | | | | | |
| Acute Myocardial Infarction | 35 | 37.1 | 26.0 | ----- | 42.9 | 28.4 | ----- | 42.9 | 30.9 | ----- |
| Congestive Heart Failure | 40 | 15.0 | 14.0 | ----- | 20.0 | 22.2 | ----- | 22.5 | 28.7 | ----- |
| Pneumonia/Influenza | 42 | 16.7 | 19.7 | ----- | 26.2 | 26.6 | ----- | 38.1 | 30.8 | ----- |
| Chronic Obstructive Pulmonary Disease | 15 | 0.0 | 7.6 | ----- | 0.0 | 12.8 | ----- | 0.0 | 17.5 | ----- |
| Transient Cerebral Ischemia | 12 | 8.3 | 1.5 | ----- | 8.3 | 3.5 | ----- | 16.7 | 5.8 | ----- |
| Stroke | 21 | 19.0 | 17.4 | ----- | 23.8 | 22.6 | ----- | 23.8 | 25.6 | ----- |
| Hip Fracture | 10 | 0.0 | 6.1 | ----- | 10.0 | 11.1 | ----- | 20.0 | 14.6 | ----- |
| Sepsis | 6 | 16.7 | 29.3 | ----- | 16.7 | 35.7 | ----- | 50.0 | 39.4 | ----- |
| PROCEDURES: | | | | | | | | | | |
| Angioplasty | 0 | | | | | | | | | |
| Coronary Artery Bypass Graft | 0 | | | | | | | | | |
| Initial Pacemaker Insertion | 1 | 0.0 | 0.9 | ----- | 0.0 | 2.0 | ----- | 0.0 | 2.9 | ----- |
| Carotid Endarterectomy | 0 | | | | | | | | | |
| Hip Replacement/Reconstruction | 2 | 0.0 | 0.5 | ----- | 0.0 | 1.1 | ----- | 0.0 | 1.5 | ----- |
| Open Reduction of Hip Fracture | 4 | 0.0 | 9.0 | ----- | 25.0 | 17.3 | ----- | 50.0 | 22.8 | ----- |
| Prostatectomy | 76 | 1.3 | 0.7 | 1.4 | 3.9 | 1.6 | 2.2 | 5.3 | 2.7 | 2.6 |
| Cholecystectomy | 26 | 0.0 | 1.1 | ----- | 0.0 | 2.0 | ----- | 0.0 | 2.8 | ----- |
| Hysterectomy | 21 | 0.0 | 0.3 | ----- | 0.0 | 0.6 | ----- | 0.0 | 1.0 | ----- |

* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# HOSPITAL MATILDE BRENES

Medicare Provider Number: 400102

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

DEMOGRAPHICS:

| | |
|---|---|
| Average age at admission | 72.9 years |
| Proportion female | 54.2 % |

ADMISSION SOURCES/TYPES:

| | |
|---|---|
| Referred by personal or HMO physician | 54.6 % |
| Transferred from skilled nursing facility | 0.0 % |
| Admitted for elective procedure | 53.6 % |
| Admitted for emergency | 44.5 % |

COMORBIDITIES:

| | |
|---|---|
| Cancer | 4.8 % |
| Chronic cardiovascular disease | 31.6 % |
| Chronic liver disease | 1.5 % |
| Chronic renal disease | 1.3 % |
| Chronic pulmonary disease | 11.9 % |
| Cerebrovascular degeneration | 0.7 % |
| Diabetes mellitus | 20.6 % |

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS*

ORIGIN OF MEDICARE PATIENT ADMISSION:

| | |
|---|---|
| County/City | 47.5% |
| State | 50.6% |
| Outside State | 1.9% |
| Total | 100.0% |

MEDICARE AVERAGE LENGTH OF STAY:

| | |
|---|---|
| Hospital | 6.7 Days |
| State | 7.2 Days |
| National | 8.6 Days |

## HOSPITAL CHARACTERISTICS*

SOURCE: Health Care Financing Administration (OSCAR)** - Survey Year 1990

PROFILE:

| | |
|---|---|
| Total Beds | 106 |
| Ownership/Control | Private, For Profit |
| Case Mix Index (CMI) | 1.1424 |

STAFFING:

| | |
|---|---|
| Medical Residents/Interns | 3 |
| Registered Nurses | 80 |
| Licensed Practical Nurses | 38 |

SPECIALTY SERVICES:

| | |
|---|---|
| Burn Unit | No |
| Coronary Care Unit | No |
| Hospice Care | No |
| Intensive Care Unit | Yes |
| Organ Transplant | No |
| Trauma Center | Yes |

OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

| | |
|---|---|
| Alcohol/Drug | No |
| Rehabilitation | Yes |
| Psychiatric | No |
| Medicare Swing Beds | No |

** Except for CMI

*** Not used in calculating mortality rates**

# HOSPITAL MENONITA DE CAYEY

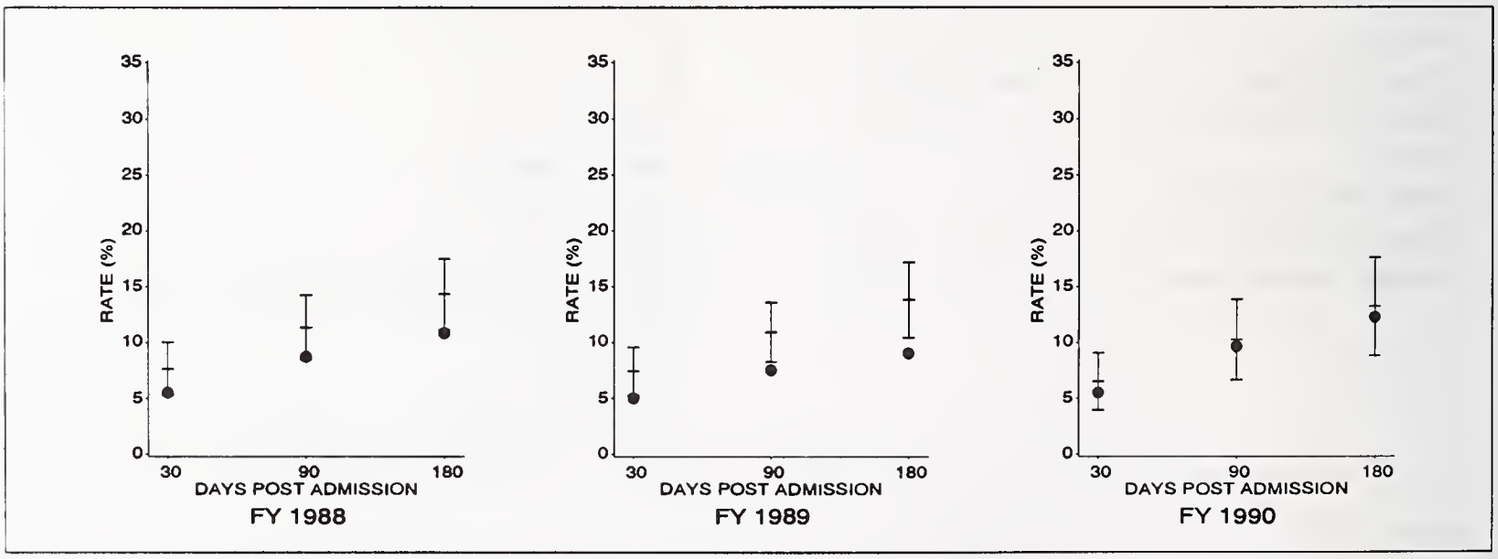
4 MENDOZA ST
CAYEY, PR 00633
Medicare Provider Number: 400013

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY | NUMBER OF CASES | MORTALITY RATES (%) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 30 DAYS | | | 90 DAYS | | | 180 DAYS | | |
| | | OBS | PRED | SD* | OBS | PRED | SD* | OBS | PRED | SD* |
| ALL CAUSES | 801 | 5.5 | 6.5 | 1.3 | 9.6 | 10.2 | 1.8 | 12.2 | 13.2 | 2.2 |
| CONDITIONS: | | | | | | | | | | |
| Acute Myocardial Infarction | 13 | 23.1 | 30.3 | ----- | 30.8 | 35.5 | ----- | 46.2 | 39.0 | ----- |
| Congestive Heart Failure | 29 | 20.7 | 14.7 | ----- | 34.5 | 23.6 | ----- | 34.5 | 30.3 | ----- |
| Pneumonia/Influenza | 35 | 14.3 | 15.7 | ----- | 22.9 | 21.3 | ----- | 25.7 | 25.5 | ----- |
| Chronic Obstructive Pulmonary Disease | 4 | 0.0 | 4.6 | ----- | 0.0 | 8.4 | ----- | 0.0 | 11.4 | ----- |
| Transient Cerebral Ischemia | 8 | 0.0 | 1.5 | ----- | 0.0 | 3.8 | ----- | 12.5 | 6.9 | ----- |
| Stroke | 26 | 19.2 | 16.0 | ----- | 26.9 | 23.2 | ----- | 30.8 | 27.4 | ----- |
| Hip Fracture | 0 | | | | | | | | | |
| Sepsis | 9 | 22.2 | 34.7 | ----- | 33.3 | 42.8 | ----- | 44.4 | 47.5 | ----- |
| PROCEDURES: | | | | | | | | | | |
| Angioplasty | 0 | | | | | | | | | |
| Coronary Artery Bypass Graft | 0 | | | | | | | | | |
| Initial Pacemaker Insertion | 0 | | | | | | | | | |
| Carotid Endarterectomy | 0 | | | | | | | | | |
| Hip Replacement/Reconstruction | 0 | | | | | | | | | |
| Open Reduction of Hip Fracture | 0 | | | | | | | | | |
| Prostatectomy | 53 | 0.0 | 0.7 | 1.3 | 0.0 | 1.5 | 2.0 | 0.0 | 2.5 | 2.9 |
| Cholecystectomy | 18 | 0.0 | 0.8 | ----- | 0.0 | 1.5 | ----- | 0.0 | 2.2 | ----- |
| Hysterectomy | 7 | 0.0 | 0.1 | ----- | 0.0 | 0.2 | ----- | 0.0 | 0.3 | ----- |

* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# HOSPITAL MENONITA DE CAYEY

Medicare Provider Number: 400013

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

DEMOGRAPHICS:

| | |
|---|---|
| Average age at admission | 73.7 years |
| Proportion female | 50.1 % |

ADMISSION SOURCES/TYPES:

| | |
|---|---|
| Referred by personal or HMO physician | 39.3 % |
| Transferred from skilled nursing facility | 0.0 % |
| Admitted for elective procedure | 10.5 % |
| Admitted for emergency | 2.7 % |

COMORBIDITIES:

| | |
|---|---|
| Cancer | 2.6 % |
| Chronic cardiovascular disease | 27.6 % |
| Chronic liver disease | 0.9 % |
| Chronic renal disease | 1.0 % |
| Chronic pulmonary disease | 17.3 % |
| Cerebrovascular degeneration | 0.2 % |
| Diabetes mellitus | 15.3 % |

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS*

ORIGIN OF MEDICARE PATIENT ADMISSION:

| | |
|---|---|
| County/City | 77.1% |
| State | 22.2% |
| Outside State | 0.7% |
| Total | 100.0% |

MEDICARE AVERAGE LENGTH OF STAY:

| | |
|---|---|
| Hospital | 5.9 Days |
| State | 7.2 Days |
| National | 8.6 Days |

## HOSPITAL CHARACTERISTICS*

SOURCE: Health Care Financing Administration (OSCAR)** - Survey Year 1991

PROFILE:

| | |
|---|---|
| Total Beds | 46 |
| Ownership.Control | Private, Non-Profit |
| Case Mix Index (CMI) | 0.9176 |

STAFFING:

| | |
|---|---|
| Medical Residents/Interns | 6 |
| Registered Nurses | 33 |
| Licensed Practical Nurses | 22 |

SPECIALTY SERVICES:

| | |
|---|---|
| Burn Unit | No |
| Coronary Care Unit | No |
| Hospice Care | No |
| Intensive Care Unit | No |
| Organ Transplant | No |
| Trauma Center | No |

OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

| | |
|---|---|
| Alcohol/Drug | No |
| Rehabilitation | No |
| Psychiatric | No |
| Medicare Swing Beds | No |

** Except for CMI

* Not used in calculating mortality rates

# HOSPITAL MIMIYA INC

303 DE DIEGO AVE
SANTURCE, PR 00940
Medicare Provider Number: 400088

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY | NUMBER OF CASES | MORTALITY RATES (%) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 30 DAYS | | | 90 DAYS | | | 180 DAYS | | |
| | | OBS | PRED | SD* | OBS | PRED | SD* | OBS | PRED | SD* |
| ALL CAUSES | 50 | 4.0 | 5.3 | ----- | 6.0 | 8.5 | ----- | 8.0 | 10.7 | ----- |
| CONDITIONS: | | | | | | | | | | |
| Acute Myocardial Infarction | 0 | | | | | | | | | |
| Congestive Heart Failure | 2 | 0.0 | 20.3 | ----- | 0.0 | 30.3 | ----- | 50.0 | 36.7 | ----- |
| Pneumonia/Influenza | 0 | | | | | | | | | |
| Chronic Obstructive Pulmonary Disease | 0 | | | | | | | | | |
| Transient Cerebral Ischemia | 0 | | | | | | | | | |
| Stroke | 0 | | | | | | | | | |
| Hip Fracture | 0 | | | | | | | | | |
| Sepsis | 0 | | | | | | | | | |
| PROCEDURES: | | | | | | | | | | |
| Angioplasty | 0 | | | | | | | | | |
| Coronary Artery Bypass Graft | 0 | | | | | | | | | |
| Initial Pacemaker Insertion | 0 | | | | | | | | | |
| Carotid Endarterectomy | 0 | | | | | | | | | |
| Hip Replacement/Reconstruction | 0 | | | | | | | | | |
| Open Reduction of Hip Fracture | 0 | | | | | | | | | |
| Prostatectomy | 0 | | | | | | | | | |
| Cholecystectomy | 1 | 0.0 | 0.7 | ----- | 0.0 | 1.5 | ----- | 0.0 | 2.1 | ----- |
| Hysterectomy | 1 | 0.0 | 0.1 | ----- | 0.0 | 0.1 | ----- | 0.0 | 0.3 | ----- |

* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES

No Graphs are presented when the standard deviation
was not computed for one or more of the three fiscal years,
(1988, 1989, or 1990)

# HOSPITAL MIMIYA INC
Medicare Provider Number: 400088

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

DEMOGRAPHICS:

| | |
|---|---|
| Average age at admission | 75.9 years |
| Proportion female | 58.0 % |

ADMISSION SOURCES/TYPES:

| | |
|---|---|
| Referred by personal or HMO physician | 98.0 % |
| Transferred from skilled nursing facility | 0.0 % |
| Admitted for elective procedure | 64.0 % |
| Admitted for emergency | 8.0 % |

COMORBIDITIES:

| | |
|---|---|
| Cancer | 6.0 % |
| Chronic cardiovascular disease | 40.0 % |
| Chronic liver disease | 0.0 % |
| Chronic renal disease | 0.0 % |
| Chronic pulmonary disease | 0.0 % |
| Cerebrovascular degeneration | 0.0 % |
| Diabetes mellitus | 14.0 % |

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS*

ORIGIN OF MEDICARE PATIENT ADMISSION:

| | |
|---|---|
| County/City | 49.2% |
| State | 46.0% |
| Outside State | 4.8% |
| Total | 100.0% |

MEDICARE AVERAGE LENGTH OF STAY:

| | |
|---|---|
| Hospital | 3.6 Days |
| State | 7.2 Days |
| National | 8.6 Days |

## HOSPITAL CHARACTERISTICS*

SOURCE: Health Care Financing Administration (OSCAR)** - Survey Year 1989

PROFILE:

| | |
|---|---|
| Total Beds | 57 |
| Ownership.Control | Private, Non-Profit |
| Case Mix Index (CMI) | 0.7537 |

STAFFING:

| | |
|---|---|
| Medical Residents/Interns | 1 |
| Registered Nurses | 15 |
| Licensed Practical Nurses | 29 |

SPECIALTY SERVICES:

| | |
|---|---|
| Burn Unit | No |
| Coronary Care Unit | No |
| Hospice Care | No |
| Intensive Care Unit | No |
| Organ Transplant | No |
| Trauma Center | No |

OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

| | |
|---|---|
| Alcohol/Drug | No |
| Rehabilitation | No |
| Psychiatric | No |
| Medicare Swing Beds | No |

** Except for CMI

*** Not used in calculating mortality rates**

# HOSPITAL SAN CARLOS BORROMEO

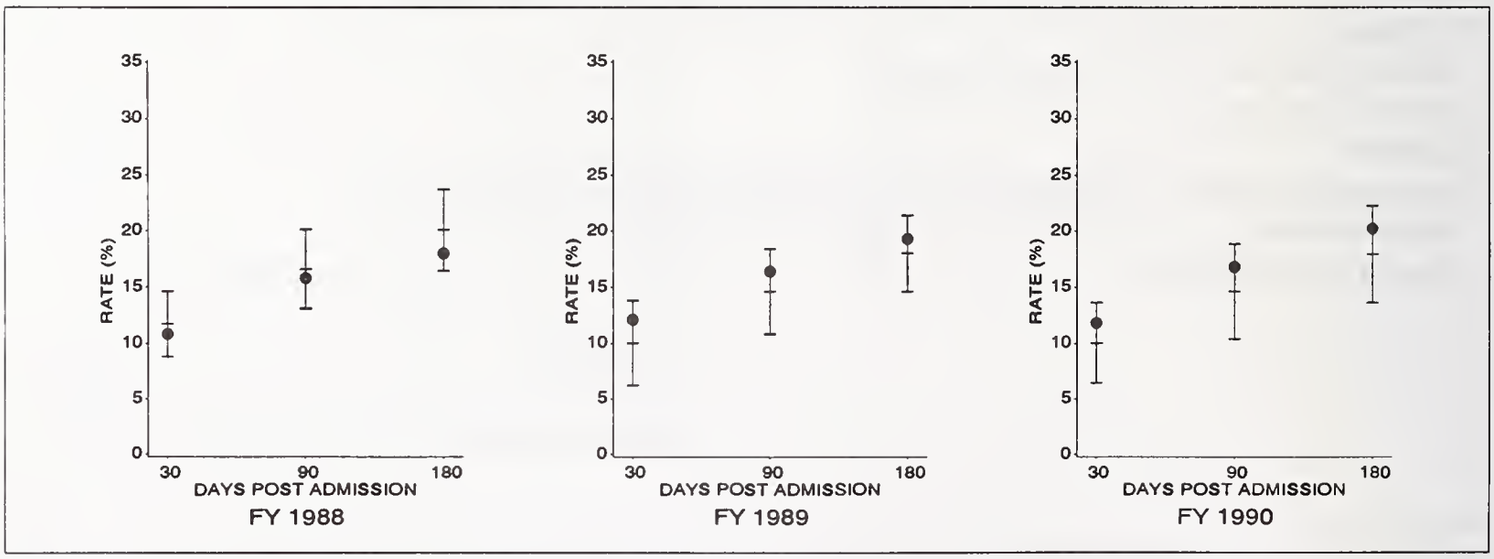
RD 110 KM 12 2
MOCA, PR 00676
Medicare Provider Number: 400111

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY | NUMBER OF CASES | MORTALITY RATES (%) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 30 DAYS | | | 90 DAYS | | | 180 DAYS | | |
| | | OBS | PRED | SD* | OBS | PRED | SD* | OBS | PRED | SD* |
| ALL CAUSES | 951 | 11.8 | 10.0 | 1.8 | 16.8 | 14.6 | 2.1 | 20.2 | 17.9 | 2.2 |
| CONDITIONS: | | | | | | | | | | |
| Acute Myocardial Infarction | 39 | 23.1 | 24.6 | ----- | 30.8 | 27.9 | ----- | 33.3 | 30.7 | ----- |
| Congestive Heart Failure | 58 | 3.4 | 14.4 | 8.0 | 20.7 | 22.4 | 6.6 | 31.0 | 28.7 | 7.6 |
| Pneumonia/Influenza | 73 | 21.9 | 15.9 | 9.5 | 26.0 | 21.4 | 10.1 | 32.9 | 25.0 | 9.8 |
| Chronic Obstructive Pulmonary Disease | 42 | 4.8 | 5.7 | ----- | 9.5 | 11.0 | ----- | 14.3 | 15.4 | ----- |
| Transient Cerebral Ischemia | 21 | 0.0 | 1.6 | ----- | 0.0 | 3.6 | ----- | 4.8 | 6.0 | ----- |
| Stroke | 50 | 18.0 | 18.2 | ----- | 26.0 | 24.5 | ----- | 26.0 | 28.2 | ----- |
| Hip Fracture | 4 | 25.0 | 8.5 | ----- | 25.0 | 14.3 | ----- | 25.0 | 18.2 | ----- |
| Sepsis | 11 | 18.2 | 32.2 | ----- | 18.2 | 37.9 | ----- | 27.3 | 41.9 | ----- |
| PROCEDURES: | | | | | | | | | | |
| Angioplasty | 0 | | | | | | | | | |
| Coronary Artery Bypass Graft | 0 | | | | | | | | | |
| Initial Pacemaker Insertion | 0 | | | | | | | | | |
| Carotid Endarterectomy | 0 | | | | | | | | | |
| Hip Replacement/Reconstruction | 1 | 0.0 | 12.8 | ----- | 0.0 | 23.8 | ----- | 0.0 | 29.4 | ----- |
| Open Reduction of Hip Fracture | 0 | | | | | | | | | |
| Prostatectomy | 21 | 4.8 | 0.4 | ----- | 4.8 | 1.0 | ----- | 4.8 | 1.9 | ----- |
| Cholecystectomy | 21 | 0.0 | 1.9 | ----- | 0.0 | 3.9 | ----- | 0.0 | 5.6 | ----- |
| Hysterectomy | 14 | 0.0 | 0.1 | ----- | 0.0 | 0.2 | ----- | 0.0 | 0.4 | ----- |

* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# HOSPITAL SAN CARLOS BORROMEO

Medicare Provider Number: 400111

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

DEMOGRAPHICS:

| | |
|---|---|
| Average age at admission | 74.8 years |
| Proportion female | 51.3 % |

ADMISSION SOURCES/TYPES:

| | |
|---|---|
| Referred by personal or HMO physician | 29.5 % |
| Transferred from skilled nursing facility | 0.0 % |
| Admitted for elective procedure | 28.4 % |
| Admitted for emergency | 69.7 % |

COMORBIDITIES:

| | |
|---|---|
| Cancer | 2.7 % |
| Chronic cardiovascular disease | 25.8 % |
| Chronic liver disease | 1.1 % |
| Chronic renal disease | 2.7 % |
| Chronic pulmonary disease | 20.3 % |
| Cerebrovascular degeneration | 0.3 % |
| Diabetes mellitus | 25.9 % |

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS*

ORIGIN OF MEDICARE PATIENT ADMISSION:

| | |
|---|---|
| County/City | 17.5% |
| State | 80.7% |
| Outside State | 1.8% |
| Total | 100.0% |

MEDICARE AVERAGE LENGTH OF STAY:

| | |
|---|---|
| Hospital | 6.2 Days |
| State | 7.2 Days |
| National | 8.6 Days |

## HOSPITAL CHARACTERISTICS*

SOURCE: Health Care Financing Administration (OSCAR)** - Survey Year 1991

PROFILE:

| | |
|---|---|
| Total Beds | 64 |
| Ownership/Control | Private, For Profit |
| Case Mix Index (CMI) | 1.1910 |

STAFFING:

| | |
|---|---|
| Medical Residents/Interns | 1 |
| Registered Nurses | 60 |
| Licensed Practical Nurses | 28 |

SPECIALTY SERVICES:

| | |
|---|---|
| Burn Unit | No |
| Coronary Care Unit | Yes |
| Hospice Care | No |
| Intensive Care Unit | Yes |
| Organ Transplant | No |
| Trauma Center | No |

OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

| | |
|---|---|
| Alcohol/Drug | No |
| Rehabilitation | No |
| Psychiatric | No |
| Medicare Swing Beds | No |

** Except for CMI

*** Not used in calculating mortality rates**

# HOSPITAL SAN CRISTOBAL

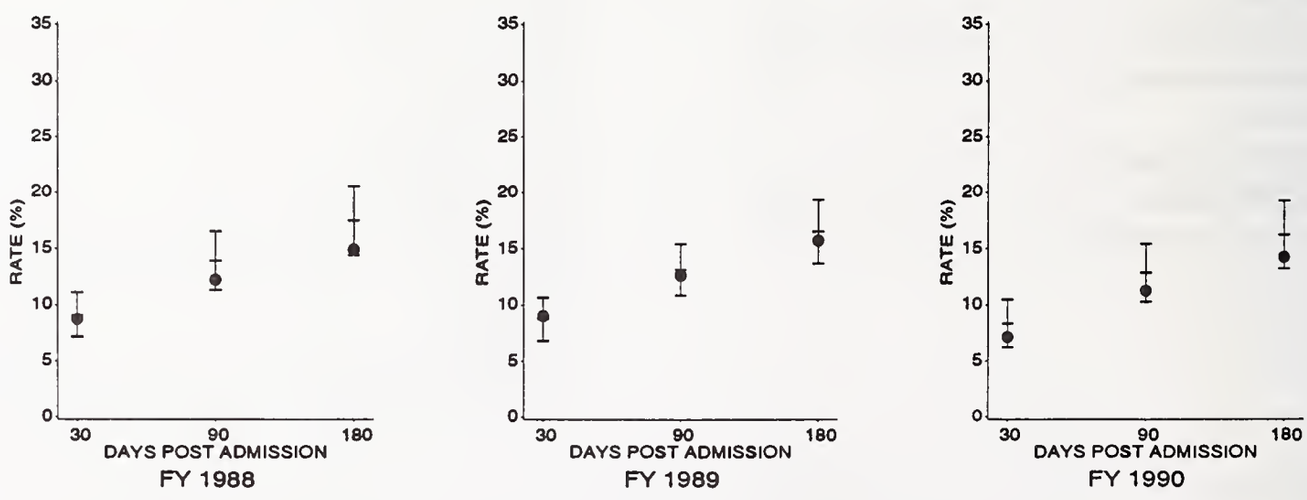
CARR 506 BO COTO LAUREL
PONCE, PR 00644
Medicare Provider Number: 400113

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY | NUMBER OF CASES | MORTALITY RATES (%) 30 DAYS OBS | 30 DAYS PRED | 30 DAYS SD* | 90 DAYS OBS | 90 DAYS PRED | 90 DAYS SD* | 180 DAYS OBS | 180 DAYS PRED | 180 DAYS SD* |
|---|---|---|---|---|---|---|---|---|---|---|
| ALL CAUSES | 1016 | 7.1 | 8.3 | 1.1 | 11.2 | 12.8 | 1.3 | 14.2 | 16.2 | 1.5 |
| CONDITIONS: | | | | | | | | | | |
| Acute Myocardial Infarction | 26 | 23.1 | 24.4 | ----- | 23.1 | 27.1 | ----- | 23.1 | 29.7 | ----- |
| Congestive Heart Failure | 57 | 7.0 | 14.3 | 9.0 | 14.0 | 23.1 | 11.7 | 21.1 | 29.7 | 12.1 |
| Pneumonia/Influenza | 19 | 15.8 | 11.4 | ----- | 21.1 | 15.6 | ----- | 21.1 | 18.2 | ----- |
| Chronic Obstructive Pulmonary Disease | 43 | 2.3 | 8.9 | ----- | 4.7 | 15.3 | ----- | 7.0 | 19.7 | ----- |
| Transient Cerebral Ischemia | 28 | 0.0 | 1.8 | ----- | 3.6 | 4.2 | ----- | 7.1 | 7.0 | ----- |
| Stroke | 75 | 12.0 | 16.5 | 8.3 | 20.0 | 23.0 | 7.9 | 24.0 | 26.9 | 6.8 |
| Hip Fracture | 0 | | | | | | | | | |
| Sepsis | 16 | 25.0 | 24.4 | ----- | 37.5 | 31.7 | ----- | 37.5 | 36.7 | ----- |
| PROCEDURES: | | | | | | | | | | |
| Angioplasty | 0 | | | | | | | | | |
| Coronary Artery Bypass Graft | 0 | | | | | | | | | |
| Initial Pacemaker Insertion | 0 | | | | | | | | | |
| Carotid Endarterectomy | 0 | | | | | | | | | |
| Hip Replacement/Reconstruction | 0 | | | | | | | | | |
| Open Reduction of Hip Fracture | 0 | | | | | | | | | |
| Prostatectomy | 42 | 2.4 | 1.7 | ----- | 2.4 | 4.0 | ----- | 7.1 | 6.8 | ----- |
| Cholecystectomy | 20 | 5.0 | 2.6 | ----- | 10.0 | 4.8 | ----- | 10.0 | 6.5 | ----- |
| Hysterectomy | 10 | 0.0 | 0.4 | ----- | 0.0 | 1.0 | ----- | 0.0 | 1.7 | ----- |

* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# HOSPITAL SAN CRISTOBAL
Medicare Provider Number: 400113

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

DEMOGRAPHICS:

| | |
|---|---|
| Average age at admission | 74.4 years |
| Proportion female | 49.5 % |

ADMISSION SOURCES/TYPES:

| | |
|---|---|
| Referred by personal or HMO physician | 28.0 % |
| Transferred from skilled nursing facility | 0.0 % |
| Admitted for elective procedure | 5.4 % |
| Admitted for emergency | 70.7 % |

COMORBIDITIES:

| | |
|---|---|
| Cancer | 1.1 % |
| Chronic cardiovascular disease | 22.5 % |
| Chronic liver disease | 0.5 % |
| Chronic renal disease | 1.9 % |
| Chronic pulmonary disease | 35.8 % |
| Cerebrovascular degeneration | 0.1 % |
| Diabetes mellitus | 23.1 % |

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS*

ORIGIN OF MEDICARE PATIENT ADMISSION:

| | |
|---|---|
| County/City | 24.0% |
| State | 74.6% |
| Outside State | 1.4% |
| Total | 100.0% |

MEDICARE AVERAGE LENGTH OF STAY:

| | |
|---|---|
| Hospital | 6.1 Days |
| State | 7.2 Days |
| National | 8.6 Days |

## HOSPITAL CHARACTERISTICS*

SOURCE: Health Care Financing Administration (OSCAR)** - Survey Year 1991

PROFILE:

| | |
|---|---|
| Total Beds | 103 |
| Ownership/Control | Private, For Profit |
| Case Mix Index (CMI) | 1.1823 |

STAFFING:

| | |
|---|---|
| Medical Residents/Interns | 1 |
| Registered Nurses | 77 |
| Licensed Practical Nurses | 47 |

SPECIALTY SERVICES:

| | |
|---|---|
| Burn Unit | No |
| Coronary Care Unit | Yes |
| Hospice Care | No |
| Intensive Care Unit | Yes |
| Organ Transplant | No |
| Trauma Center | No |

OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

| | |
|---|---|
| Alcohol/Drug | No |
| Rehabilitation | No |
| Psychiatric | No |
| Medicare Swing Beds | No |

** Except for CMI

*** Not used in calculating mortality rates**

# HOSPITAL SAN FRANCISCO

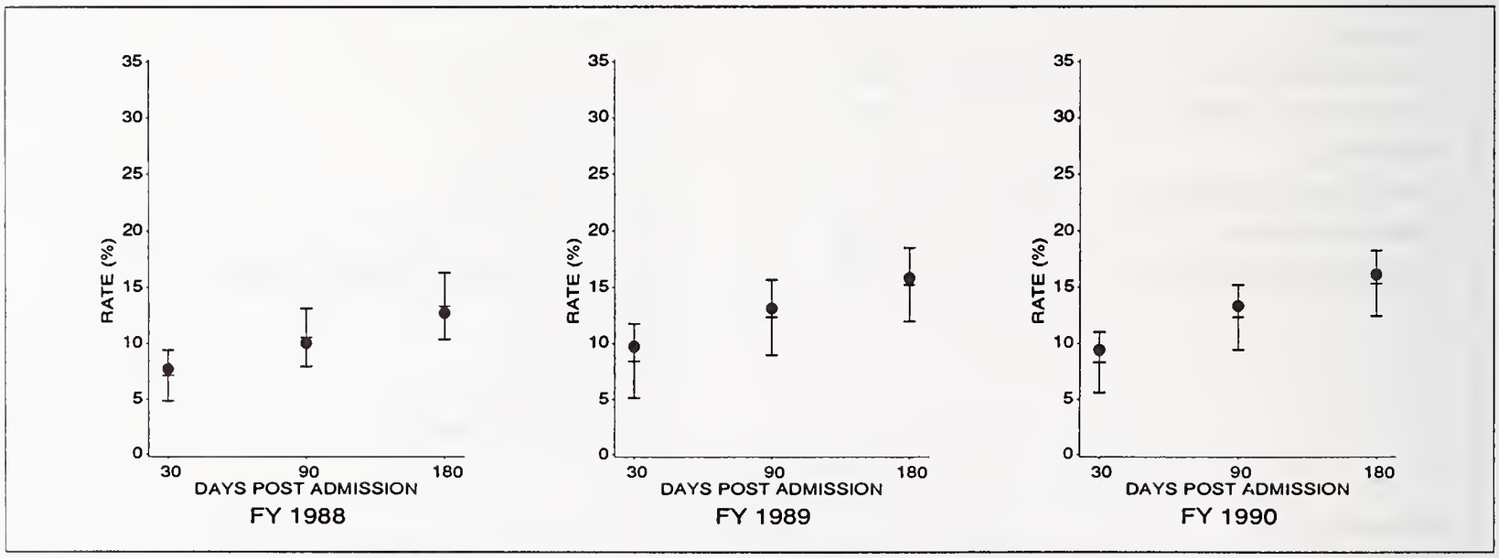
371 DE DIEGO AVE
RIO PIEDRAS, PR 00923
Medicare Provider Number: 400098

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY | NUMBER OF CASES | MORTALITY RATES (%) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 30 DAYS | | | 90 DAYS | | | 180 DAYS | | |
| | | OBS | PRED | SD* | OBS | PRED | SD* | OBS | PRED | SD* |
| ALL CAUSES | 807 | 9.4 | 8.3 | 1.4 | 13.3 | 12.3 | 1.5 | 16.1 | 15.3 | 1.5 |
| CONDITIONS: | | | | | | | | | | |
| Acute Myocardial Infarction | 33 | 27.3 | 34.4 | ----- | 27.3 | 37.3 | ----- | 30.3 | 40.6 | ----- |
| Congestive Heart Failure | 37 | 13.5 | 11.0 | ----- | 27.0 | 17.7 | ----- | 29.7 | 23.1 | ----- |
| Pneumonia/Influenza | 45 | 15.6 | 13.3 | ----- | 17.8 | 17.8 | ----- | 24.4 | 21.2 | ----- |
| Chronic Obstructive Pulmonary Disease | 9 | 0.0 | 4.7 | ----- | 0.0 | 9.6 | ----- | 0.0 | 14.7 | ----- |
| Transient Cerebral Ischemia | 3 | 0.0 | 1.0 | ----- | 0.0 | 2.4 | ----- | 0.0 | 4.2 | ----- |
| Stroke | 33 | 15.2 | 13.9 | ----- | 18.2 | 20.5 | ----- | 24.2 | 24.2 | ----- |
| Hip Fracture | 49 | 6.1 | 4.9 | ----- | 14.3 | 8.9 | ----- | 18.4 | 11.8 | ----- |
| Sepsis | 9 | 33.3 | 31.0 | ----- | 44.4 | 36.1 | ----- | 44.4 | 41.2 | ----- |
| PROCEDURES: | | | | | | | | | | |
| Angioplasty | 0 | | | | | | | | | |
| Coronary Artery Bypass Graft | 0 | | | | | | | | | |
| Initial Pacemaker Insertion | 4 | 0.0 | 1.6 | ----- | 0.0 | 3.2 | ----- | 0.0 | 4.8 | ----- |
| Carotid Endarterectomy | 0 | | | | | | | | | |
| Hip Replacement/Reconstruction | 15 | 0.0 | 3.8 | ----- | 6.7 | 7.1 | ----- | 6.7 | 9.5 | ----- |
| Open Reduction of Hip Fracture | 28 | 7.1 | 4.7 | ----- | 14.3 | 8.8 | ----- | 21.4 | 11.8 | ----- |
| Prostatectomy | 22 | 0.0 | 0.7 | ----- | 4.5 | 1.6 | ----- | 9.1 | 2.8 | ----- |
| Cholecystectomy | 17 | 5.9 | 3.2 | ----- | 11.8 | 6.3 | ----- | 11.8 | 8.5 | ----- |
| Hysterectomy | 1 | 0.0 | 0.0 | ----- | 0.0 | 0.1 | ----- | 0.0 | 0.2 | ----- |

* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# HOSPITAL SAN FRANCISCO
Medicare Provider Number: 400098

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

DEMOGRAPHICS:

| | |
|---|---|
| Average age at admission | 75.1 years |
| Proportion female | 59.2 % |

ADMISSION SOURCES/TYPES:

| | |
|---|---|
| Referred by personal or HMO physician | 28.1 % |
| Transferred from skilled nursing facility | 0.6 % |
| Admitted for elective procedure | 10.4 % |
| Admitted for emergency | 22.6 % |

COMORBIDITIES:

| | |
|---|---|
| Cancer | 2.0 % |
| Chronic cardiovascular disease | 23.3 % |
| Chronic liver disease | 1.6 % |
| Chronic renal disease | 1.7 % |
| Chronic pulmonary disease | 12.0 % |
| Cerebrovascular degeneration | 0.6 % |
| Diabetes mellitus | 19.2 % |

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS*

ORIGIN OF MEDICARE PATIENT ADMISSION:

| | |
|---|---|
| County/City | 60.2% |
| State | 38.7% |
| Outside State | 1.1% |
| Total | 100.0% |

MEDICARE AVERAGE LENGTH OF STAY:

| | |
|---|---|
| Hospital | 7.7 Days |
| State | 7.2 Days |
| National | 8.6 Days |

## HOSPITAL CHARACTERISTICS*

SOURCE: Health Care Financing Administration (OSCAR)** - Survey Year 1990

PROFILE:

| | |
|---|---|
| Total Beds | 160 |
| Ownership/Control | Private, For Profit |
| Case Mix Index (CMI) | 1.2401 |

STAFFING:

| | |
|---|---|
| Medical Residents/Interns | 0 |
| Registered Nurses | 50 |
| Licensed Practical Nurses | 30 |

SPECIALTY SERVICES:

| | |
|---|---|
| Burn Unit | No |
| Coronary Care Unit | No |
| Hospice Care | No |
| Intensive Care Unit | Yes |
| Organ Transplant | No |
| Trauma Center | No |

OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

| | |
|---|---|
| Alcohol/Drug | No |
| Rehabilitation | No |
| Psychiatric | No |
| Medicare Swing Beds | No |

** Except for CMI

*** Not used in calculating mortality rates**

# HOSPITAL WILMA N VAZQUEZ

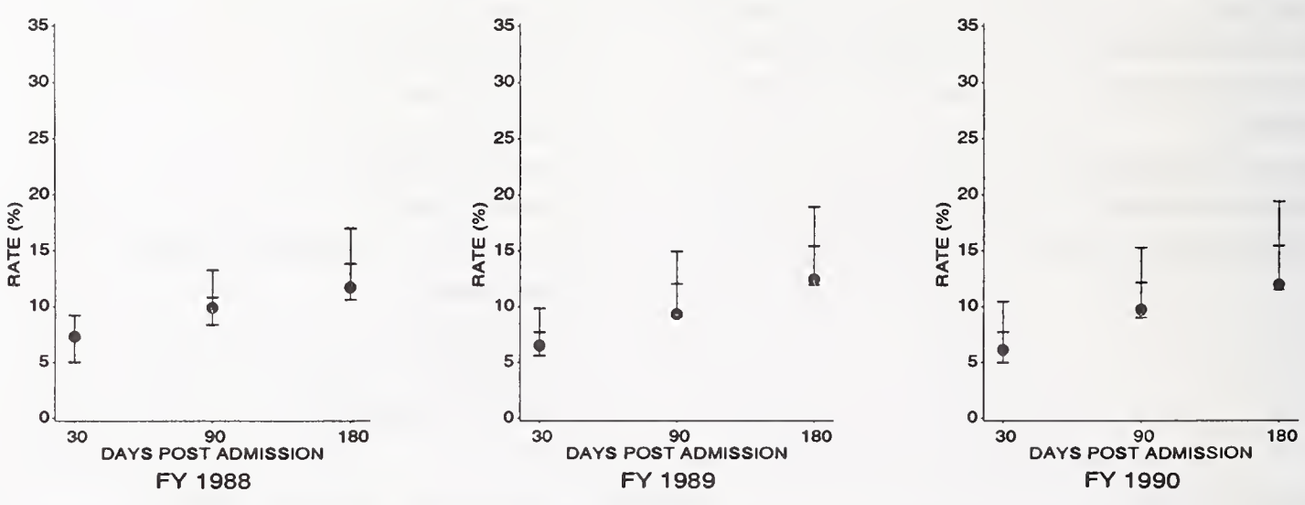
CALLE BOX 7001
VEGA BAJA, PR 00764
Medicare Provider Number: 400115

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY | NUMBER OF CASES | MORTALITY RATES (%) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 30 DAYS | | | 90 DAYS | | | 180 DAYS | | |
| | | OBS | PRED | SD* | OBS | PRED | SD* | OBS | PRED | SD* |
| ALL CAUSES | 773 | 6.1 | 7.7 | 1.4 | 9.7 | 12.1 | 1.6 | 11.9 | 15.4 | 2.0 |
| CONDITIONS: | | | | | | | | | | |
| Acute Myocardial Infarction | 17 | 17.6 | 25.1 | ----- | 17.6 | 27.7 | ----- | 23.5 | 30.4 | ----- |
| Congestive Heart Failure | 42 | 16.7 | 14.6 | ----- | 28.6 | 23.7 | ----- | 33.3 | 30.3 | ----- |
| Pneumonia/Influenza | 70 | 8.6 | 17.0 | 7.4 | 14.3 | 22.7 | 8.5 | 17.1 | 26.3 | 8.8 |
| Chronic Obstructive Pulmonary Disease | 27 | 3.7 | 6.6 | ----- | 3.7 | 12.1 | ----- | 3.7 | 17.2 | ----- |
| Transient Cerebral Ischemia | 25 | 0.0 | 1.8 | ----- | 4.0 | 4.1 | ----- | 8.0 | 6.8 | ----- |
| Stroke | 17 | 29.4 | 18.0 | ----- | 29.4 | 25.3 | ----- | 35.3 | 29.0 | ----- |
| Hip Fracture | 11 | 9.1 | 8.6 | ----- | 9.1 | 14.5 | ----- | 9.1 | 18.7 | ----- |
| Sepsis | 3 | 66.7 | 37.7 | ----- | 66.7 | 44.8 | ----- | 66.7 | 52.2 | ----- |
| PROCEDURES: | | | | | | | | | | |
| Angioplasty | 0 | | | | | | | | | |
| Coronary Artery Bypass Graft | 0 | | | | | | | | | |
| Initial Pacemaker Insertion | 0 | | | | | | | | | |
| Carotid Endarterectomy | 0 | | | | | | | | | |
| Hip Replacement/Reconstruction | 1 | 0.0 | 13.4 | ----- | 0.0 | 21.1 | ----- | 0.0 | 27.5 | ----- |
| Open Reduction of Hip Fracture | 10 | 10.0 | 7.3 | ----- | 10.0 | 12.8 | ----- | 10.0 | 16.8 | ----- |
| Prostatectomy | 24 | 0.0 | 1.0 | ----- | 0.0 | 2.1 | ----- | 0.0 | 3.6 | ----- |
| Cholecystectomy | 9 | 0.0 | 3.3 | ----- | 0.0 | 6.3 | ----- | 0.0 | 8.4 | ----- |
| Hysterectomy | 5 | 0.0 | 0.2 | ----- | 0.0 | 0.6 | ----- | 0.0 | 0.9 | ----- |

* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# HOSPITAL WILMA N VAZQUEZ

Medicare Provider Number: 400115

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

DEMOGRAPHICS:

| | |
|---|---|
| Average age at admission | 73.3 years |
| Proportion female | 52.5 % |

ADMISSION SOURCES/TYPES:

| | |
|---|---|
| Referred by personal or HMO physician | 34.8 % |
| Transferred from skilled nursing facility | 1.6 % |
| Admitted for elective procedure | 6.2 % |
| Admitted for emergency | 6.3 % |

COMORBIDITIES:

| | |
|---|---|
| Cancer | 1.7 % |
| Chronic cardiovascular disease | 60.2 % |
| Chronic liver disease | 1.4 % |
| Chronic renal disease | 2.3 % |
| Chronic pulmonary disease | 32.9 % |
| Cerebrovascular degeneration | 1.3 % |
| Diabetes mellitus | 19.3 % |

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS*

ORIGIN OF MEDICARE PATIENT ADMISSION:

| | |
|---|---|
| County/City | 61.3% |
| State | 37.5% |
| Outside State | 1.2% |
| Total | 100.0% |

MEDICARE AVERAGE LENGTH OF STAY:

| | |
|---|---|
| Hospital | 5.2 Days |
| State | 7.2 Days |
| National | 8.6 Days |

## HOSPITAL CHARACTERISTICS*

SOURCE: Health Care Financing Administration (OSCAR)** - Survey Year 1991

PROFILE:

| | |
|---|---|
| Total Beds | 82 |
| Ownership/Control | Private, For Profit |
| Case Mix Index (CMI) | 1.0519 |

STAFFING:

| | |
|---|---|
| Medical Residents/Interns | 2 |
| Registered Nurses | 36 |
| Licensed Practical Nurses | 31 |

SPECIALTY SERVICES:

| | |
|---|---|
| Burn Unit | No |
| Coronary Care Unit | No |
| Hospice Care | No |
| Intensive Care Unit | Yes |
| Organ Transplant | No |
| Trauma Center | No |

OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

| | |
|---|---|
| Alcohol/Drug | No |
| Rehabilitation | No |
| Psychiatric | No |
| Medicare Swing Beds | No |

** Except for CMI

*** Not used in calculating mortality rates**

# HUMACAO AREA HOSPITAL

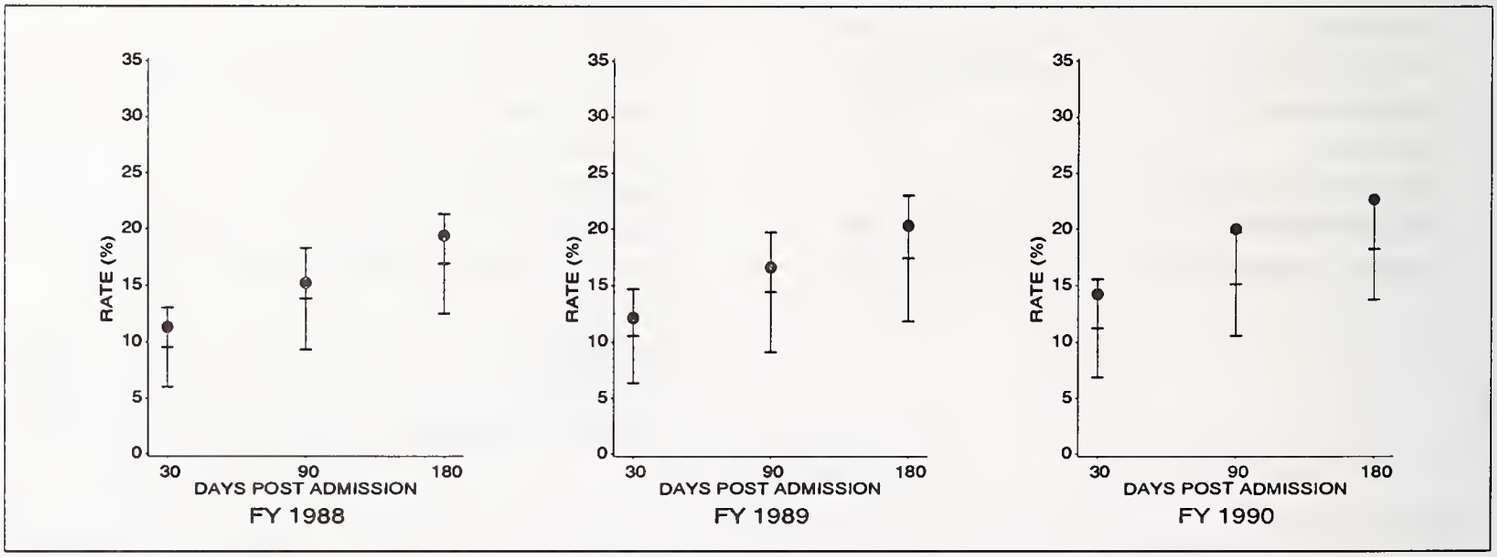
BOX 115
HUMACAO, PR 00791
Medicare Provider Number: 400031

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY | NUMBER OF CASES | MORTALITY RATES (%) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 30 DAYS | | | 90 DAYS | | | 180 DAYS | | |
| | | OBS | PRED | SD* | OBS | PRED | SD* | OBS | PRED | SD* |
| ALL CAUSES | 451 | 14.2 | 11.2 | 2.2 | 20.0 | 15.1 | 2.3 | 22.6 | 18.2 | 2.2 |
| CONDITIONS: | | | | | | | | | | |
| Acute Myocardial Infarction | 16 | 25.0 | 30.5 | ----- | 25.0 | 32.8 | ----- | 25.0 | 35.9 | ----- |
| Congestive Heart Failure | 30 | 20.0 | 16.0 | ----- | 33.3 | 24.8 | ----- | 46.7 | 30.9 | ----- |
| Pneumonia/Influenza | 24 | 33.3 | 14.4 | ----- | 41.7 | 19.4 | ----- | 45.8 | 22.5 | ----- |
| Chronic Obstructive Pulmonary Disease | 1 | 0.0 | 9.1 | ----- | 0.0 | 15.0 | ----- | 0.0 | 20.6 | ----- |
| Transient Cerebral Ischemia | 3 | 33.3 | 1.3 | ----- | 33.3 | 3.0 | ----- | 33.3 | 4.6 | ----- |
| Stroke | 22 | 36.4 | 21.8 | ----- | 40.9 | 28.3 | ----- | 40.9 | 32.3 | ----- |
| Hip Fracture | 4 | 25.0 | 5.7 | ----- | 50.0 | 11.1 | ----- | 50.0 | 14.3 | ----- |
| Sepsis | 16 | 43.8 | 40.3 | ----- | 50.0 | 45.7 | ----- | 56.3 | 49.8 | ----- |
| PROCEDURES: | | | | | | | | | | |
| Angioplasty | 0 | | | | | | | | | |
| Coronary Artery Bypass Graft | 0 | | | | | | | | | |
| Initial Pacemaker Insertion | 0 | | | | | | | | | |
| Carotid Endarterectomy | 0 | | | | | | | | | |
| Hip Replacement/Reconstruction | 3 | 0.0 | 3.7 | ----- | 0.0 | 6.8 | ----- | 0.0 | 8.5 | ----- |
| Open Reduction of Hip Fracture | 0 | | | | | | | | | |
| Prostatectomy | 12 | 0.0 | 1.1 | ----- | 0.0 | 2.6 | ----- | 0.0 | 4.4 | ----- |
| Cholecystectomy | 5 | 0.0 | 0.8 | ----- | 0.0 | 1.6 | ----- | 0.0 | 2.4 | ----- |
| Hysterectomy | 4 | 0.0 | 0.1 | ----- | 0.0 | 0.2 | ----- | 0.0 | 0.3 | ----- |

* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# HUMACAO AREA HOSPITAL

Medicare Provider Number: 400031

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

DEMOGRAPHICS:

| | |
|---|---|
| Average age at admission | 72.2 years |
| Proportion female | 34.1 % |

ADMISSION SOURCES/TYPES:

| | |
|---|---|
| Referred by personal or HMO physician | 0.2 % |
| Transferred from skilled nursing facility | 0.0 % |
| Admitted for elective procedure | 13.5 % |
| Admitted for emergency | 84.0 % |

COMORBIDITIES:

| | |
|---|---|
| Cancer | 2.4 % |
| Chronic cardiovascular disease | 30.4 % |
| Chronic liver disease | 3.3 % |
| Chronic renal disease | 0.2 % |
| Chronic pulmonary disease | 6.7 % |
| Cerebrovascular degeneration | 0.7 % |
| Diabetes mellitus | 15.1 % |

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS*

ORIGIN OF MEDICARE PATIENT ADMISSION:

| | |
|---|---|
| County/City | 29.1% |
| State | 69.3% |
| Outside State | 1.6% |
| Total | 100.0% |

MEDICARE AVERAGE LENGTH OF STAY:

| | |
|---|---|
| Hospital | 6.7 Days |
| State | 7.2 Days |
| National | 8.6 Days |

## HOSPITAL CHARACTERISTICS*

SOURCE: Health Care Financing Administration (OSCAR)** - Survey Year 1991

PROFILE:

| | |
|---|---|
| Total Beds | 153 |
| Ownership/Control | State Government |
| Case Mix Index (CMI) | 1.0296 |

STAFFING:

| | |
|---|---|
| Medical Residents/Interns | 11 |
| Registered Nurses | 123 |
| Licensed Practical Nurses | 91 |

SPECIALTY SERVICES:

| | |
|---|---|
| Burn Unit | Yes |
| Coronary Care Unit | Yes |
| Hospice Care | Yes |
| Intensive Care Unit | Yes |
| Organ Transplant | No |
| Trauma Center | No |

OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

| | |
|---|---|
| Alcohol/Drug | Yes |
| Rehabilitation | Yes |
| Psychiatric | Yes |
| Medicare Swing Beds | No |

** Except for CMI

*** Not used in calculating mortality rates**

# LAFAYETTE HOSPITAL

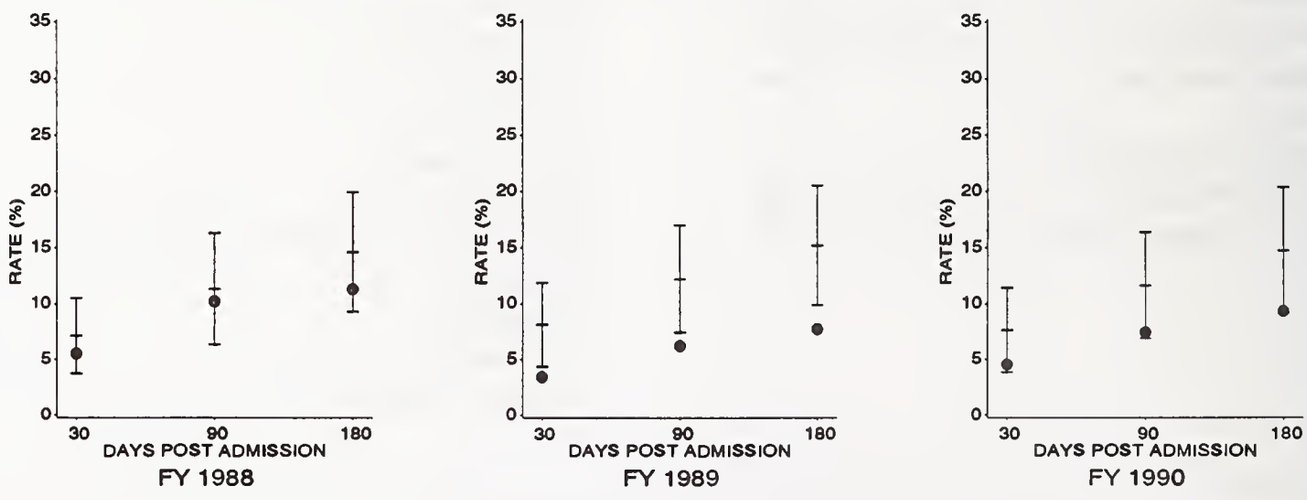
BOX 448
ARROYO, PR 00615
Medicare Provider Number: 400026

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY | NUMBER OF CASES | MORTALITY RATES (%) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 30 DAYS | | | 90 DAYS | | | 180 DAYS | | |
| | | OBS | PRED | SD* | OBS | PRED | SD* | OBS | PRED | SD* |
| ALL CAUSES | 311 | 4.5 | 7.6 | 1.9 | 7.4 | 11.6 | 2.4 | 9.3 | 14.7 | 2.8 |
| CONDITIONS: | | | | | | | | | | |
| Acute Myocardial Infarction | 8 | 12.5 | 16.4 | ----- | 12.5 | 19.2 | ----- | 37.5 | 21.9 | ----- |
| Congestive Heart Failure | 21 | 14.3 | 15.3 | ----- | 19.0 | 25.1 | ----- | 19.0 | 32.7 | ----- |
| Pneumonia/Influenza | 30 | 6.7 | 13.9 | ----- | 16.7 | 18.8 | ----- | 23.3 | 22.5 | ----- |
| Chronic Obstructive Pulmonary Disease | 3 | 33.3 | 6.3 | ----- | 33.3 | 11.4 | ----- | 33.3 | 15.7 | ----- |
| Transient Cerebral Ischemia | 5 | 0.0 | 1.3 | ----- | 0.0 | 2.8 | ----- | 0.0 | 4.5 | ----- |
| Stroke | 10 | 10.0 | 13.4 | ----- | 20.0 | 18.9 | ----- | 20.0 | 22.4 | ----- |
| Hip Fracture | 0 | | | | | | | | | |
| Sepsis | 12 | 33.3 | 29.5 | ----- | 33.3 | 40.0 | ----- | 41.7 | 45.9 | ----- |
| PROCEDURES: | | | | | | | | | | |
| Angioplasty | 0 | | | | | | | | | |
| Coronary Artery Bypass Graft | 0 | | | | | | | | | |
| Initial Pacemaker Insertion | 0 | | | | | | | | | |
| Carotid Endarterectomy | 0 | | | | | | | | | |
| Hip Replacement/Reconstruction | 0 | | | | | | | | | |
| Open Reduction of Hip Fracture | 0 | | | | | | | | | |
| Prostatectomy | 10 | 0.0 | 1.2 | ----- | 0.0 | 2.7 | ----- | 0.0 | 4.4 | ----- |
| Cholecystectomy | 6 | 0.0 | 2.2 | ----- | 0.0 | 3.2 | ----- | 0.0 | 3.9 | ----- |
| Hysterectomy | 6 | 0.0 | 0.1 | ----- | 0.0 | 0.2 | ----- | 0.0 | 0.5 | ----- |

* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# LAFAYETTE HOSPITAL
Medicare Provider Number: 400026

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

DEMOGRAPHICS:

| | |
|---|---|
| Average age at admission | 74.4 years |
| Proportion female | 55.3 % |

ADMISSION SOURCES/TYPES:

| | |
|---|---|
| Referred by personal or HMO physician | 8.4 % |
| Transferred from skilled nursing facility | 0.0 % |
| Admitted for elective procedure | 10.6 % |
| Admitted for emergency | 0.3 % |

COMORBIDITIES:

| | |
|---|---|
| Cancer | 1.3 % |
| Chronic cardiovascular disease | 47.9 % |
| Chronic liver disease | 0.6 % |
| Chronic renal disease | 0.6 % |
| Chronic pulmonary disease | 16.1 % |
| Cerebrovascular degeneration | 1.0 % |
| Diabetes mellitus | 16.7 % |

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS*

ORIGIN OF MEDICARE PATIENT ADMISSION:

| | |
|---|---|
| County/City | 51.0% |
| State | 48.8% |
| Outside State | 0.2% |
| Total | 100.0% |

MEDICARE AVERAGE LENGTH OF STAY:

| | |
|---|---|
| Hospital | 4.7 Days |
| State | 7.2 Days |
| National | 8.6 Days |

## HOSPITAL CHARACTERISTICS*

SOURCE: Health Care Financing Administration (OSCAR)** - Survey Year 1990

PROFILE:

| | |
|---|---|
| Total Beds | 66 |
| Ownership/Control | Private, For Profit |
| Case Mix Index (CMI) | 0.9546 |

STAFFING:

| | |
|---|---|
| Medical Residents/Interns | 4 |
| Registered Nurses | 27 |
| Licensed Practical Nurses | 5 |

SPECIALTY SERVICES:

| | |
|---|---|
| Burn Unit | No |
| Coronary Care Unit | No |
| Hospice Care | No |
| Intensive Care Unit | No |
| Organ Transplant | No |
| Trauma Center | No |

OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

| | |
|---|---|
| Alcohol/Drug | No |
| Rehabilitation | No |
| Psychiatric | No |
| Medicare Swing Beds | No |

** Except for CMI

*** Not used in calculating mortality rates**

# MAYAGUEZ MEDICAL CENTER

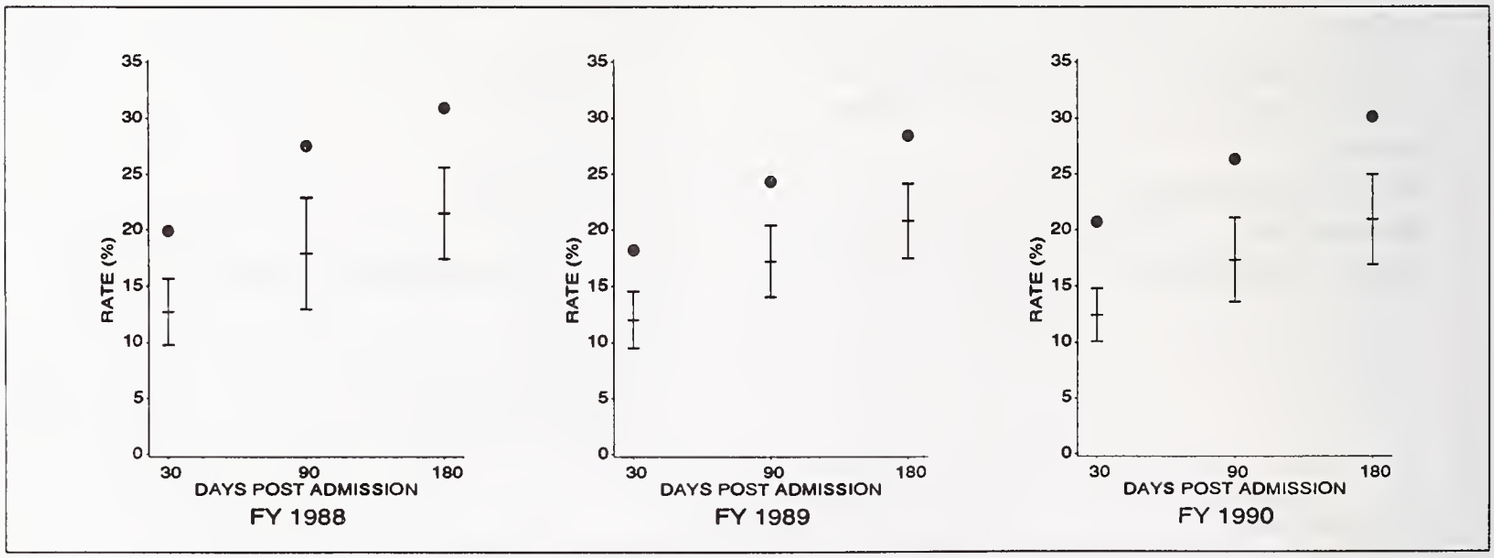
P O BOX 1868
MAYAGUEZ, PR 00708
Medicare Provider Number: 400103

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY | NUMBER OF CASES | MORTALITY RATES (%) 30 DAYS OBS | 30 DAYS PRED | 30 DAYS SD* | 90 DAYS OBS | 90 DAYS PRED | 90 DAYS SD* | 180 DAYS OBS | 180 DAYS PRED | 180 DAYS SD* |
|---|---|---|---|---|---|---|---|---|---|---|
| ALL CAUSES | 1507 | 20.7 | 12.4 | 1.2 | 26.3 | 17.3 | 1.9 | 30.1 | 20.9 | 2.0 |
| CONDITIONS: | | | | | | | | | | |
| Acute Myocardial Infarction | 89 | 32.6 | 27.6 | 5.3 | 39.3 | 29.9 | 6.3 | 44.9 | 32.2 | 7.3 |
| Congestive Heart Failure | 75 | 22.7 | 13.3 | 5.8 | 36.0 | 21.6 | 7.3 | 44.0 | 27.8 | 8.0 |
| Pneumonia/Influenza | 104 | 39.4 | 16.7 | 4.2 | 43.3 | 21.9 | 4.5 | 46.2 | 25.6 | 5.0 |
| Chronic Obstructive Pulmonary Disease | 11 | 18.2 | 7.3 | ----- | 27.3 | 13.7 | ----- | 27.3 | 18.8 | ----- |
| Transient Cerebral Ischemia | 22 | 18.2 | 2.1 | ----- | 27.3 | 4.6 | ----- | 31.8 | 7.2 | ----- |
| Stroke | 60 | 45.0 | 24.4 | 7.5 | 51.7 | 30.2 | 8.3 | 55.0 | 33.7 | 8.0 |
| Hip Fracture | 75 | 12.0 | 7.6 | 4.0 | 17.3 | 12.9 | 4.7 | 24.0 | 16.4 | 6.2 |
| Sepsis | 28 | 60.7 | 33.1 | ----- | 64.3 | 39.2 | ----- | 64.3 | 43.6 | ----- |
| PROCEDURES: | | | | | | | | | | |
| Angioplasty | 0 | | | | | | | | | |
| Coronary Artery Bypass Graft | 0 | | | | | | | | | |
| Initial Pacemaker Insertion | 5 | 0.0 | 5.7 | ----- | 0.0 | 8.3 | ----- | 0.0 | 10.3 | ----- |
| Carotid Endarterectomy | 2 | 0.0 | 0.8 | ----- | 0.0 | 1.6 | ----- | 0.0 | 2.4 | ----- |
| Hip Replacement/Reconstruction | 19 | 10.5 | 6.1 | ----- | 10.5 | 10.7 | ----- | 10.5 | 14.0 | ----- |
| Open Reduction of Hip Fracture | 46 | 8.7 | 7.2 | ----- | 17.4 | 12.5 | ----- | 26.1 | 16.0 | ----- |
| Prostatectomy | 10 | 0.0 | 1.8 | ----- | 0.0 | 3.8 | ----- | 0.0 | 6.0 | ----- |
| Cholecystectomy | 43 | 7.0 | 3.5 | ----- | 7.0 | 6.6 | ----- | 7.0 | 8.8 | ----- |
| Hysterectomy | 16 | 0.0 | 0.8 | ----- | 6.3 | 1.7 | ----- | 6.3 | 2.6 | ----- |

* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# MAYAGUEZ MEDICAL CENTER

Medicare Provider Number: 400103

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

DEMOGRAPHICS:

| | |
|---|---|
| Average age at admission | 71.8 years |
| Proportion female | 45.2 % |

ADMISSION SOURCES/TYPES:

| | |
|---|---|
| Referred by personal or HMO physician | 0.6 % |
| Transferred from skilled nursing facility | 0.0 % |
| Admitted for elective procedure | 18.5 % |
| Admitted for emergency | 77.2 % |

COMORBIDITIES:

| | |
|---|---|
| Cancer | 4.7 % |
| Chronic cardiovascular disease | 40.9 % |
| Chronic liver disease | 1.9 % |
| Chronic renal disease | 7.6 % |
| Chronic pulmonary disease | 11.0 % |
| Cerebrovascular degeneration | 1.2 % |
| Diabetes mellitus | 22.9 % |

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS*

ORIGIN OF MEDICARE PATIENT ADMISSION:

| | |
|---|---|
| County/City | 24.3% |
| State | 74.6% |
| Outside State | 1.1% |
| Total | 100.0% |

MEDICARE AVERAGE LENGTH OF STAY:

| | |
|---|---|
| Hospital | 6.4 Days |
| State | 7.2 Days |
| National | 8.6 Days |

## HOSPITAL CHARACTERISTICS*

SOURCE: Health Care Financing Administration (OSCAR)** - Survey Year 1989

PROFILE:

| | |
|---|---|
| Total Beds | 391 |
| Ownership/Control | State Government |
| Case Mix Index (CMI) | 1.4205 |

STAFFING:

| | |
|---|---|
| Medical Residents/Interns | 65 |
| Registered Nurses | 207 |
| Licensed Practical Nurses | 170 |

SPECIALTY SERVICES:

| | |
|---|---|
| Burn Unit | No |
| Coronary Care Unit | No |
| Hospice Care | No |
| Intensive Care Unit | Yes |
| Organ Transplant | No |
| Trauma Center | No |

OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

| | |
|---|---|
| Alcohol/Drug | No |
| Rehabilitation | No |
| Psychiatric | No |
| Medicare Swing Beds | No |

** Except for CMI

*** Not used in calculating mortality rates**

# MENNONITE GENERAL HOSPITAL INC

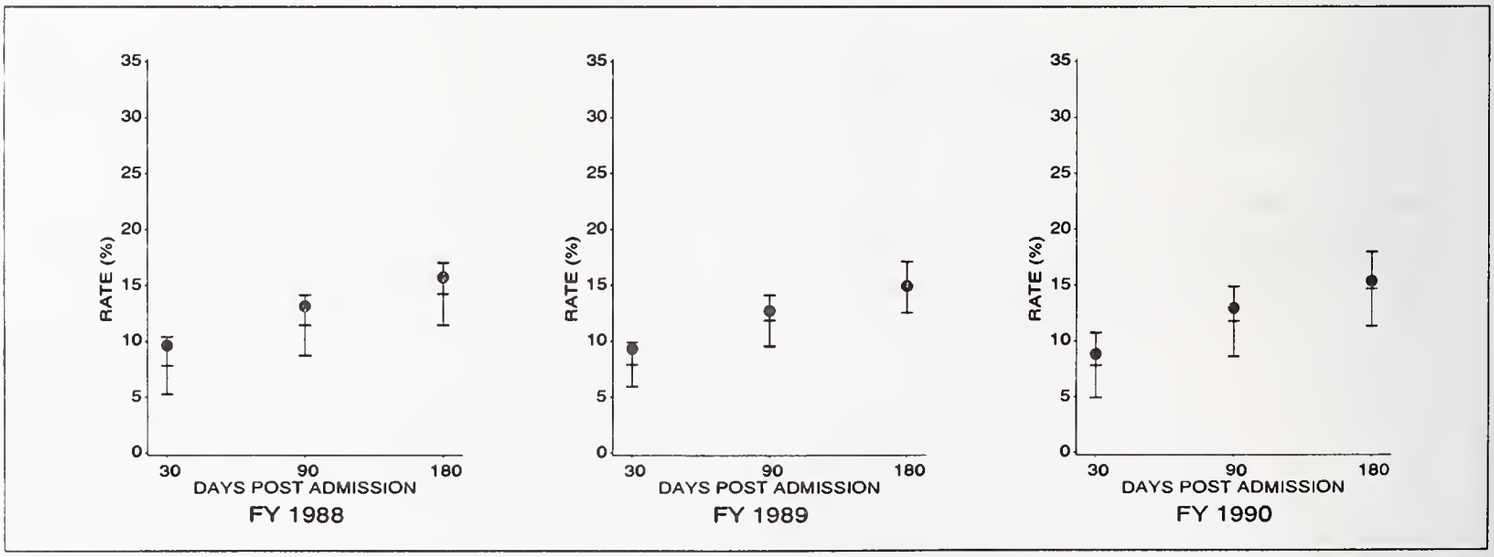
P O BOX 626
AIBONITO, PR 00609
Medicare Provider Number: 400018

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY | NUMBER OF CASES | MORTALITY RATES (%) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 30 DAYS | | | 90 DAYS | | | 180 DAYS | | |
| | | OBS | PRED | SD* | OBS | PRED | SD* | OBS | PRED | SD* |
| ALL CAUSES | 1065 | 8.8 | 7.8 | 1.5 | 12.9 | 11.7 | 1.6 | 15.3 | 14.6 | 1.7 |
| CONDITIONS: | | | | | | | | | | |
| Acute Myocardial Infarction | 43 | 23.3 | 23.5 | ----- | 32.6 | 26.2 | ----- | 32.6 | 28.9 | ----- |
| Congestive Heart Failure | 62 | 14.5 | 14.4 | 5.6 | 21.0 | 23.4 | 6.2 | 25.8 | 29.9 | 7.3 |
| Pneumonia/Influenza | 68 | 20.6 | 13.7 | 7.1 | 26.5 | 18.7 | 7.2 | 30.9 | 22.3 | 7.7 |
| Chronic Obstructive Pulmonary Disease | 25 | 12.0 | 8.5 | ----- | 20.0 | 15.2 | ----- | 24.0 | 20.5 | ----- |
| Transient Cerebral Ischemia | 16 | 6.3 | 1.8 | ----- | 6.3 | 4.5 | ----- | 12.5 | 7.8 | ----- |
| Stroke | 50 | 18.0 | 18.1 | ----- | 26.0 | 23.9 | ----- | 28.0 | 27.1 | ----- |
| Hip Fracture | 16 | 12.5 | 8.0 | ----- | 25.0 | 13.8 | ----- | 31.3 | 17.8 | ----- |
| Sepsis | 10 | 50.0 | 30.2 | ----- | 60.0 | 38.7 | ----- | 70.0 | 43.4 | ----- |
| PROCEDURES: | | | | | | | | | | |
| Angioplasty | 0 | | | | | | | | | |
| Coronary Artery Bypass Graft | 0 | | | | | | | | | |
| Initial Pacemaker Insertion | 0 | | | | | | | | | |
| Carotid Endarterectomy | 0 | | | | | | | | | |
| Hip Replacement/Reconstruction | 28 | 3.6 | 2.5 | ----- | 7.1 | 4.8 | ----- | 7.1 | 6.8 | ----- |
| Open Reduction of Hip Fracture | 7 | 14.3 | 8.3 | ----- | 42.9 | 15.0 | ----- | 42.9 | 19.7 | ----- |
| Prostatectomy | 67 | 0.0 | 0.6 | 1.3 | 0.0 | 1.5 | 2.2 | 1.5 | 2.7 | 2.2 |
| Cholecystectomy | 38 | 0.0 | 1.5 | ----- | 0.0 | 3.0 | ----- | 0.0 | 4.2 | ----- |
| Hysterectomy | 18 | 0.0 | 0.1 | ----- | 0.0 | 0.2 | ----- | 0.0 | 0.3 | ----- |

* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# MENNONITE GENERAL HOSPITAL INC

Medicare Provider Number: 400018

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

DEMOGRAPHICS:

| | |
|---|---|
| Average age at admission | 72.3 years |
| Proportion female | 48.2 % |

ADMISSION SOURCES/TYPES:

| | |
|---|---|
| Referred by personal or HMO physician | 78.2 % |
| Transferred from skilled nursing facility | 0.0 % |
| Admitted for elective procedure | 19.1 % |
| Admitted for emergency | 17.9 % |

COMORBIDITIES:

| | |
|---|---|
| Cancer | 2.3 % |
| Chronic cardiovascular disease | 33.6 % |
| Chronic liver disease | 1.8 % |
| Chronic renal disease | 2.0 % |
| Chronic pulmonary disease | 22.8 % |
| Cerebrovascular degeneration | 0.3 % |
| Diabetes mellitus | 16.2 % |

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS*

ORIGIN OF MEDICARE PATIENT ADMISSION:

| | |
|---|---|
| County/City | 40.2% |
| State | 59.0% |
| Outside State | 0.8% |
| Total | 100.0% |

MEDICARE AVERAGE LENGTH OF STAY:

| | |
|---|---|
| Hospital | 5.6 Days |
| State | 7.2 Days |
| National | 8.6 Days |

## HOSPITAL CHARACTERISTICS*

SOURCE: Health Care Financing Administration (OSCAR)** - Survey Year 1990

PROFILE:

| | |
|---|---|
| Total Beds | 131 |
| Ownership.Control | Private, Non-Profit |
| Case Mix Index (CMI) | 1.2240 |

STAFFING:

| | |
|---|---|
| Medical Residents/Interns | 12 |
| Registered Nurses | 65 |
| Licensed Practical Nurses | 49 |

SPECIALTY SERVICES:

| | |
|---|---|
| Burn Unit | No |
| Coronary Care Unit | No |
| Hospice Care | No |
| Intensive Care Unit | Yes |
| Organ Transplant | No |
| Trauma Center | No |

OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

| | |
|---|---|
| Alcohol/Drug | No |
| Rehabilitation | Yes |
| Psychiatric | No |
| Medicare Swing Beds | No |

** Except for CMI

*** Not used in calculating mortality rates**

# METROPOLITAN HOSPITAL

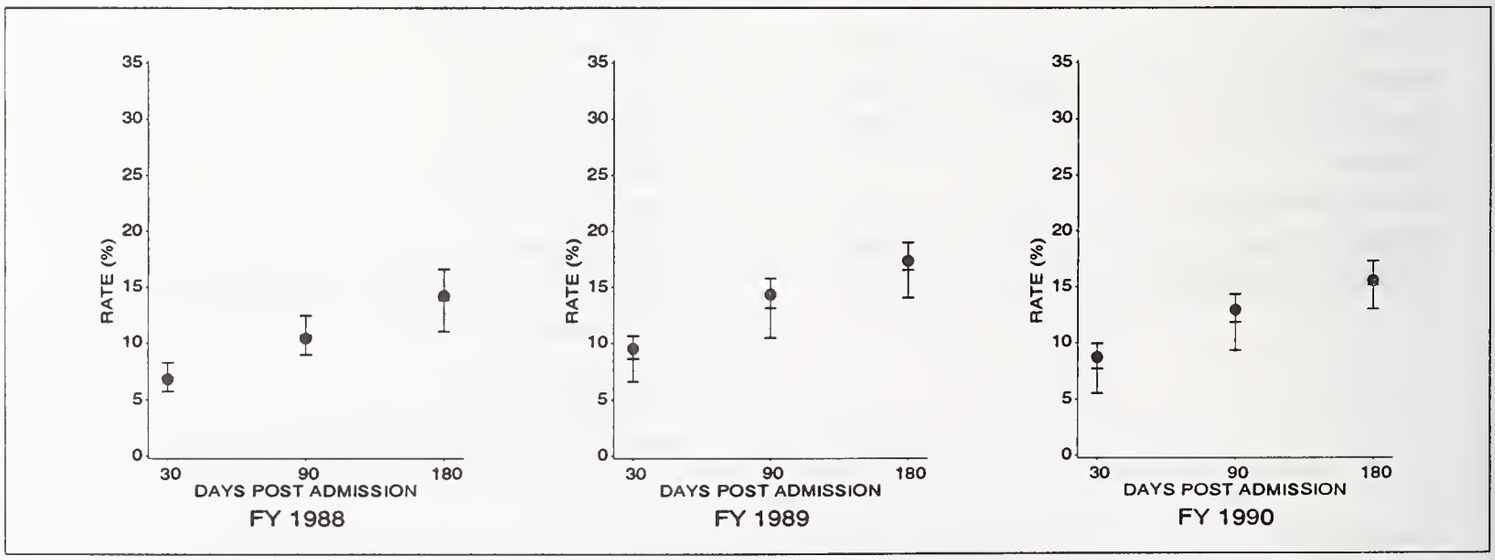
1785 ROAD 21-LAS LOMAS
RIO PIEDRAS, PR 00922
Medicare Provider Number: 400106

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY | NUMBER OF CASES | MORTALITY RATES (%) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 30 DAYS | | | 90 DAYS | | | 180 DAYS | | |
| | | OBS | PRED | SD* | OBS | PRED | SD* | OBS | PRED | SD* |
| ALL CAUSES | 1355 | 8.7 | 7.7 | 1.1 | 12.9 | 11.8 | 1.3 | 15.5 | 15.1 | 1.1 |
| CONDITIONS: | | | | | | | | | | |
| Acute Myocardial Infarction | 37 | 27.0 | 27.3 | ----- | 32.4 | 30.5 | ----- | 35.1 | 33.2 | ----- |
| Congestive Heart Failure | 47 | 17.0 | 13.6 | ----- | 34.0 | 21.8 | ----- | 42.6 | 27.6 | ----- |
| Pneumonia/Influenza | 55 | 12.7 | 16.4 | 5.9 | 23.6 | 22.7 | 5.7 | 25.5 | 26.7 | 6.3 |
| Chronic Obstructive Pulmonary Disease | 3 | 0.0 | 6.5 | ----- | 0.0 | 11.7 | ----- | 0.0 | 17.3 | ----- |
| Transient Cerebral Ischemia | 18 | 0.0 | 1.9 | ----- | 0.0 | 4.1 | ----- | 5.6 | 6.3 | ----- |
| Stroke | 45 | 17.8 | 19.0 | ----- | 17.8 | 25.9 | ----- | 20.0 | 29.5 | ----- |
| Hip Fracture | 7 | 0.0 | 6.1 | ----- | 0.0 | 10.9 | ----- | 0.0 | 13.9 | ----- |
| Sepsis | 14 | 35.7 | 31.7 | ----- | 50.0 | 37.5 | ----- | 57.1 | 42.4 | ----- |
| PROCEDURES: | | | | | | | | | | |
| Angioplasty | 0 | | | | | | | | | |
| Coronary Artery Bypass Graft | 0 | | | | | | | | | |
| Initial Pacemaker Insertion | 0 | | | | | | | | | |
| Carotid Endarterectomy | 0 | | | | | | | | | |
| Hip Replacement/Reconstruction | 0 | | | | | | | | | |
| Open Reduction of Hip Fracture | 6 | 0.0 | 5.6 | ----- | 0.0 | 10.3 | ----- | 0.0 | 13.4 | ----- |
| Prostatectomy | 117 | 0.0 | 0.6 | 0.8 | 0.9 | 1.3 | 1.1 | 0.9 | 2.4 | 1.7 |
| Cholecystectomy | 38 | 2.6 | 1.8 | ----- | 2.6 | 3.5 | ----- | 2.6 | 4.9 | ----- |
| Hysterectomy | 10 | 0.0 | 0.1 | ----- | 0.0 | 0.2 | ----- | 0.0 | 0.4 | ----- |

* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# METROPOLITAN HOSPITAL
Medicare Provider Number: 400106

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

DEMOGRAPHICS:

| | |
|---|---|
| Average age at admission | 73.1 years |
| Proportion female | 50.6 % |

ADMISSION SOURCES/TYPES:

| | |
|---|---|
| Referred by personal or HMO physician | 55.5 % |
| Transferred from skilled nursing facility | 0.0 % |
| Admitted for elective procedure | 35.6 % |
| Admitted for emergency | 51.2 % |

COMORBIDITIES:

| | |
|---|---|
| Cancer | 9.9 % |
| Chronic cardiovascular disease | 24.6 % |
| Chronic liver disease | 1.0 % |
| Chronic renal disease | 1.0 % |
| Chronic pulmonary disease | 7.5 % |
| Cerebrovascular degeneration | 0.5 % |
| Diabetes mellitus | 21.9 % |

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS*

ORIGIN OF MEDICARE PATIENT ADMISSION:

| | |
|---|---|
| County/City | 47.8% |
| State | 47.6% |
| Outside State | 4.6% |
| Total | 100.0% |

MEDICARE AVERAGE LENGTH OF STAY:

| | |
|---|---|
| Hospital | 7.0 Days |
| State | 7.2 Days |
| National | 8.6 Days |

## HOSPITAL CHARACTERISTICS*

SOURCE: Health Care Financing Administration (OSCAR)** - Survey Year 1991

PROFILE:

| | |
|---|---|
| Total Beds | 180 |
| Ownership/Control | Private, For Profit |
| Case Mix Index (CMI) | 1.0474 |

STAFFING:

| | |
|---|---|
| Medical Residents/Interns | 1 |
| Registered Nurses | 46 |
| Licensed Practical Nurses | 72 |

SPECIALTY SERVICES:

| | |
|---|---|
| Burn Unit | No |
| Coronary Care Unit | No |
| Hospice Care | No |
| Intensive Care Unit | Yes |
| Organ Transplant | No |
| Trauma Center | No |

OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

| | |
|---|---|
| Alcohol/Drug | No |
| Rehabilitation | Yes |
| Psychiatric | No |
| Medicare Swing Beds | No |

** Except for CMI

*** Not used in calculating mortality rates**

# PAVIA HOSPITAL

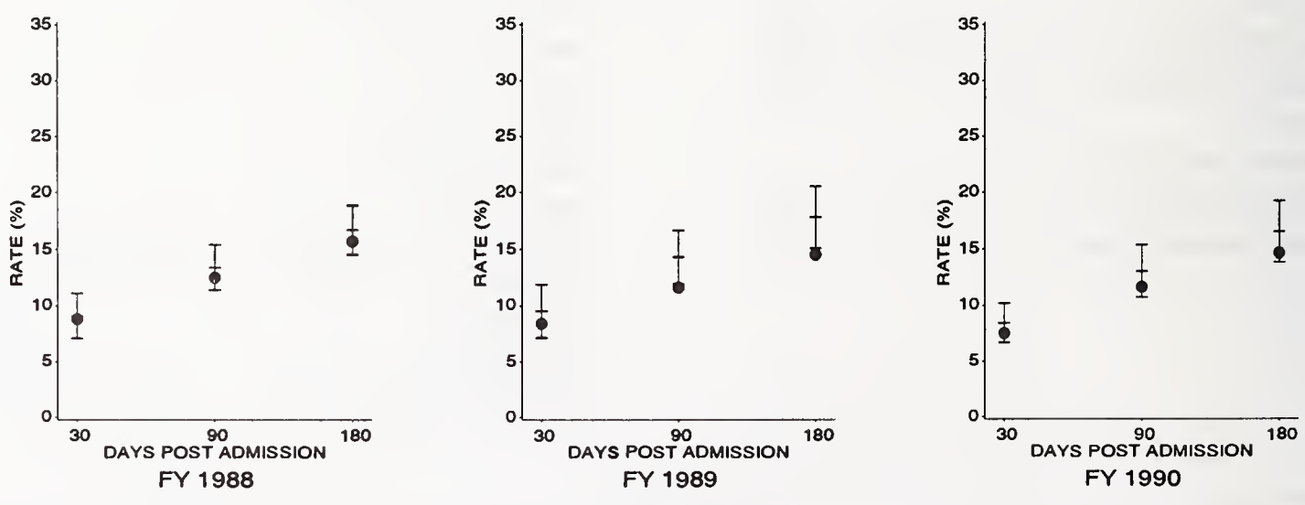
ASIA STREET NO 1462
SANTURCE, PR 00909
Medicare Provider Number: 400019

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY | NUMBER OF CASES | MORTALITY RATES (%) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 30 DAYS | | | 90 DAYS | | | 180 DAYS | | |
| | | OBS | PRED | SD* | OBS | PRED | SD* | OBS | PRED | SD* |
| ALL CAUSES | 1687 | 7.5 | 8.4 | 0.9 | 11.6 | 13.0 | 1.2 | 14.6 | 16.5 | 1.4 |
| CONDITIONS: | | | | | | | | | | |
| Acute Myocardial Infarction | 33 | 33.3 | 32.5 | ----- | 39.4 | 36.3 | ----- | 42.4 | 39.2 | ----- |
| Congestive Heart Failure | 99 | 10.1 | 12.6 | 4.1 | 19.2 | 19.9 | 4.3 | 25.3 | 25.6 | 5.4 |
| Pneumonia/Influenza | 36 | 25.0 | 24.1 | ----- | 27.8 | 32.8 | ----- | 36.1 | 37.6 | ----- |
| Chronic Obstructive Pulmonary Disease | 18 | 0.0 | 6.5 | ----- | 0.0 | 11.6 | ----- | 5.6 | 15.6 | ----- |
| Transient Cerebral Ischemia | 11 | 0.0 | 1.6 | ----- | 9.1 | 3.7 | ----- | 9.1 | 6.1 | ----- |
| Stroke | 41 | 17.1 | 17.7 | ----- | 22.0 | 25.2 | ----- | 22.0 | 29.2 | ----- |
| Hip Fracture | 28 | 7.1 | 8.9 | ----- | 14.3 | 15.1 | ----- | 21.4 | 18.9 | ----- |
| Sepsis | 7 | 57.1 | 32.6 | ----- | 85.7 | 40.8 | ----- | 85.7 | 45.5 | ----- |
| PROCEDURES: | | | | | | | | | | |
| Angioplasty | 0 | | | | | | | | | |
| Coronary Artery Bypass Graft | 0 | | | | | | | | | |
| Initial Pacemaker Insertion | 0 | | | | | | | | | |
| Carotid Endarterectomy | 8 | 0.0 | 1.5 | ----- | 0.0 | 2.6 | ----- | 0.0 | 3.8 | ----- |
| Hip Replacement/Reconstruction | 18 | 5.6 | 3.9 | ----- | 11.1 | 6.7 | ----- | 16.7 | 8.6 | ----- |
| Open Reduction of Hip Fracture | 14 | 7.1 | 8.6 | ----- | 14.3 | 15.0 | ----- | 21.4 | 18.9 | ----- |
| Prostatectomy | 161 | 1.2 | 0.7 | 0.8 | 1.2 | 1.5 | 1.1 | 2.5 | 2.6 | 1.3 |
| Cholecystectomy | 46 | 0.0 | 2.2 | ----- | 0.0 | 4.1 | ----- | 2.2 | 5.6 | ----- |
| Hysterectomy | 13 | 0.0 | 0.1 | ----- | 0.0 | 0.3 | ----- | 0.0 | 0.5 | ----- |

* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# PAVIA HOSPITAL
Medicare Provider Number: 400019

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

DEMOGRAPHICS:

| | |
|---|---|
| Average age at admission | 73.6 years |
| Proportion female | 53.9 % |

ADMISSION SOURCES/TYPES:

| | |
|---|---|
| Referred by personal or HMO physician | 57.7 % |
| Transferred from skilled nursing facility | 0.0 % |
| Admitted for elective procedure | 36.0 % |
| Admitted for emergency | 61.8 % |

COMORBIDITIES:

| | |
|---|---|
| Cancer | 11.0 % |
| Chronic cardiovascular disease | 37.6 % |
| Chronic liver disease | 1.1 % |
| Chronic renal disease | 1.8 % |
| Chronic pulmonary disease | 11.1 % |
| Cerebrovascular degeneration | 1.4 % |
| Diabetes mellitus | 16.8 % |

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS*

ORIGIN OF MEDICARE PATIENT ADMISSION:

| | |
|---|---|
| County/City | 56.1% |
| State | 39.7% |
| Outside State | 4.2% |
| Total | 100.0% |

MEDICARE AVERAGE LENGTH OF STAY:

| | |
|---|---|
| Hospital | 6.6 Days |
| State | 7.2 Days |
| National | 8.6 Days |

## HOSPITAL CHARACTERISTICS*

SOURCE: Health Care Financing Administration (OSCAR)** - Survey Year 1988

PROFILE:

| | |
|---|---|
| Total Beds | 197 |
| Ownership/Control | Private, For Profit |
| Case Mix Index (CMI) | 1.1483 |

STAFFING:

| | |
|---|---|
| Medical Residents/Interns | 3 |
| Registered Nurses | 102 |
| Licensed Practical Nurses | 72 |

SPECIALTY SERVICES:

| | |
|---|---|
| Burn Unit | No |
| Coronary Care Unit | Yes |
| Hospice Care | No |
| Intensive Care Unit | Yes |
| Organ Transplant | No |
| Trauma Center | No |

OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

| | |
|---|---|
| Alcohol/Drug | No |
| Rehabilitation | No |
| Psychiatric | No |
| Medicare Swing Beds | No |

** Except for CMI

*** Not used in calculating mortality rates**

# PONCE DISTRICT HOSPITAL

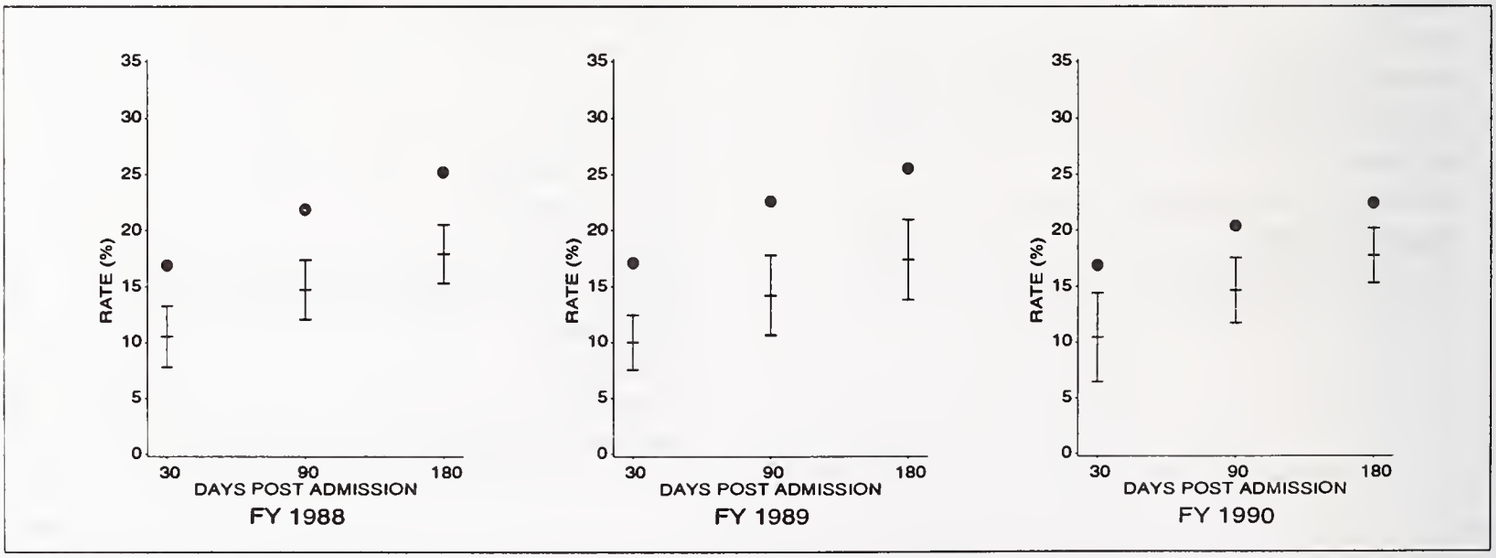
BO MACHUELO
PONCE, PR 00731
Medicare Provider Number: 400044

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY | NUMBER OF CASES | MORTALITY RATES (%) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 30 DAYS | | | 90 DAYS | | | 180 DAYS | | |
| | | OBS | PRED | SD* | OBS | PRED | SD* | OBS | PRED | SD* |
| ALL CAUSES | 1075 | 16.9 | 10.4 | 2.0 | 20.4 | 14.6 | 1.5 | 22.4 | 17.7 | 1.2 |
| CONDITIONS: | | | | | | | | | | |
| Acute Myocardial Infarction | 54 | 29.6 | 26.6 | 8.5 | 35.2 | 28.8 | 9.6 | 35.2 | 31.0 | 10.5 |
| Congestive Heart Failure | 97 | 17.5 | 13.6 | 6.4 | 22.7 | 21.3 | 5.6 | 27.8 | 27.2 | 5.8 |
| Pneumonia/Influenza | 56 | 42.9 | 17.8 | 7.9 | 44.6 | 23.6 | 7.5 | 48.2 | 27.3 | 7.9 |
| Chronic Obstructive Pulmonary Disease | 7 | 0.0 | 5.7 | ----- | 0.0 | 11.5 | ----- | 0.0 | 15.9 | ----- |
| Transient Cerebral Ischemia | 9 | 0.0 | 1.3 | ----- | 11.1 | 2.8 | ----- | 11.1 | 4.5 | ----- |
| Stroke | 53 | 37.7 | 18.3 | 9.7 | 39.6 | 22.9 | 8.8 | 39.6 | 26.0 | 8.1 |
| Hip Fracture | 15 | 6.7 | 5.2 | ----- | 6.7 | 9.3 | ----- | 13.3 | 12.1 | ----- |
| Sepsis | 21 | 71.4 | 33.8 | ----- | 81.0 | 38.6 | ----- | 85.7 | 43.0 | ----- |
| PROCEDURES: | | | | | | | | | | |
| Angioplasty | 0 | | | | | | | | | |
| Coronary Artery Bypass Graft | 0 | | | | | | | | | |
| Initial Pacemaker Insertion | 0 | | | | | | | | | |
| Carotid Endarterectomy | 0 | | | | | | | | | |
| Hip Replacement/Reconstruction | 3 | 0.0 | 3.7 | ----- | 0.0 | 6.8 | ----- | 0.0 | 9.3 | ----- |
| Open Reduction of Hip Fracture | 5 | 20.0 | 5.1 | ----- | 20.0 | 9.4 | ----- | 20.0 | 12.3 | ----- |
| Prostatectomy | 29 | 0.0 | 0.8 | ----- | 0.0 | 2.0 | ----- | 0.0 | 3.5 | ----- |
| Cholecystectomy | 15 | 6.7 | 1.7 | ----- | 6.7 | 3.0 | ----- | 6.7 | 3.9 | ----- |
| Hysterectomy | 4 | 0.0 | 0.1 | ----- | 0.0 | 0.1 | ----- | 0.0 | 0.3 | ----- |

* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# PONCE DISTRICT HOSPITAL
Medicare Provider Number: 400044

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

DEMOGRAPHICS:

| | |
|---|---|
| Average age at admission | 71.3 years |
| Proportion female | 37.6 % |

ADMISSION SOURCES/TYPES:

| | |
|---|---|
| Referred by personal or HMO physician | 4.6 % |
| Transferred from skilled nursing facility | 0.0 % |
| Admitted for elective procedure | 14.0 % |
| Admitted for emergency | 82.1 % |

COMORBIDITIES:

| | |
|---|---|
| Cancer | 1.9 % |
| Chronic cardiovascular disease | 35.0 % |
| Chronic liver disease | 2.6 % |
| Chronic renal disease | 3.2 % |
| Chronic pulmonary disease | 12.5 % |
| Cerebrovascular degeneration | 0.9 % |
| Diabetes mellitus | 19.0 % |

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS*

ORIGIN OF MEDICARE PATIENT ADMISSION:

| | |
|---|---|
| County/City | 45.2% |
| State | 52.5% |
| Outside State | 2.3% |
| Total | 100.0% |

MEDICARE AVERAGE LENGTH OF STAY:

| | |
|---|---|
| Hospital | 8.4 Days |
| State | 7.2 Days |
| National | 8.6 Days |

## HOSPITAL CHARACTERISTICS*

SOURCE: Health Care Financing Administration (OSCAR)** - Survey Year 1989

PROFILE:

| | |
|---|---|
| Total Beds | 457 |
| Ownership/Control | State Government |
| Case Mix Index (CMI) | 1.1486 |

STAFFING:

| | |
|---|---|
| Medical Residents/Interns | 67 |
| Registered Nurses | 398 |
| Licensed Practical Nurses | 249 |

SPECIALTY SERVICES:

| | |
|---|---|
| Burn Unit | No |
| Coronary Care Unit | Yes |
| Hospice Care | No |
| Intensive Care Unit | Yes |
| Organ Transplant | No |
| Trauma Center | No |

OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

| | |
|---|---|
| Alcohol/Drug | No |
| Rehabilitation | No |
| Psychiatric | No |
| Medicare Swing Beds | No |

** Except for CMI

*** Not used in calculating mortality rates**

# RYDER MEMORIAL HOSPITAL

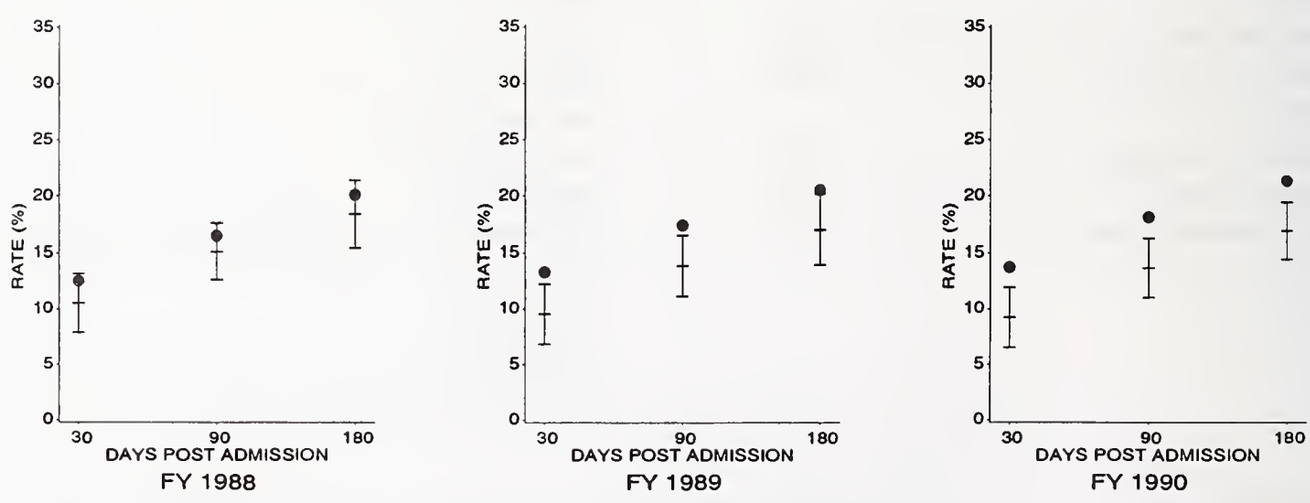
BOX 489
HUMACAO, PR 00661
Medicare Provider Number: 400007

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY | NUMBER OF CASES | MORTALITY RATES (%) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 30 DAYS | | | 90 DAYS | | | 180 DAYS | | |
| | | OBS | PRED | SD* | OBS | PRED | SD* | OBS | PRED | SD* |
| ALL CAUSES | 1155 | 13.7 | 9.2 | 1.4 | 18.1 | 13.6 | 1.3 | 21.3 | 16.9 | 1.3 |
| CONDITIONS: | | | | | | | | | | |
| Acute Myocardial Infarction | 36 | 33.3 | 26.2 | ----- | 36.1 | 29.1 | ----- | 44.4 | 31.6 | ----- |
| Congestive Heart Failure | 59 | 27.1 | 15.3 | 7.9 | 39.0 | 24.6 | 9.3 | 44.1 | 31.2 | 9.1 |
| Pneumonia/Influenza | 67 | 19.4 | 14.8 | 8.8 | 25.4 | 19.7 | 10.1 | 31.3 | 23.1 | 10.8 |
| Chronic Obstructive Pulmonary Disease | 4 | 0.0 | 12.1 | ----- | 0.0 | 22.3 | ----- | 0.0 | 29.3 | ----- |
| Transient Cerebral Ischemia | 16 | 0.0 | 1.7 | ----- | 6.3 | 3.9 | ----- | 12.5 | 6.5 | ----- |
| Stroke | 44 | 40.9 | 21.7 | ----- | 40.9 | 28.7 | ----- | 43.2 | 32.7 | ----- |
| Hip Fracture | 10 | 20.0 | 10.2 | ----- | 40.0 | 16.5 | ----- | 50.0 | 20.7 | ----- |
| Sepsis | 39 | 48.7 | 34.7 | ----- | 51.3 | 41.7 | ----- | 56.4 | 46.4 | ----- |
| PROCEDURES: | | | | | | | | | | |
| Angioplasty | 0 | | | | | | | | | |
| Coronary Artery Bypass Graft | 0 | | | | | | | | | |
| Initial Pacemaker Insertion | 4 | 0.0 | 1.8 | ----- | 0.0 | 3.8 | ----- | 0.0 | 5.9 | ----- |
| Carotid Endarterectomy | 0 | | | | | | | | | |
| Hip Replacement/Reconstruction | 5 | 0.0 | 5.4 | ----- | 0.0 | 8.8 | ----- | 0.0 | 10.7 | ----- |
| Open Reduction of Hip Fracture | 6 | 16.7 | 7.8 | ----- | 50.0 | 13.3 | ----- | 66.7 | 17.0 | ----- |
| Prostatectomy | 47 | 8.5 | 0.7 | ----- | 8.5 | 1.4 | ----- | 8.5 | 2.4 | ----- |
| Cholecystectomy | 32 | 6.3 | 1.5 | ----- | 6.3 | 2.8 | ----- | 6.3 | 4.0 | ----- |
| Hysterectomy | 14 | 0.0 | 0.1 | ----- | 0.0 | 0.2 | ----- | 0.0 | 0.4 | ----- |

* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# RYDER MEMORIAL HOSPITAL
Medicare Provider Number: 400007

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

DEMOGRAPHICS:

| | |
|---|---|
| Average age at admission | 72.8 years |
| Proportion female | 46.4 % |

ADMISSION SOURCES/TYPES:

| | |
|---|---|
| Referred by personal or HMO physician | 35.2 % |
| Transferred from skilled nursing facility | 0.1 % |
| Admitted for elective procedure | 20.4 % |
| Admitted for emergency | 74.6 % |

COMORBIDITIES:

| | |
|---|---|
| Cancer | 5.6 % |
| Chronic cardiovascular disease | 28.5 % |
| Chronic liver disease | 2.3 % |
| Chronic renal disease | 1.6 % |
| Chronic pulmonary disease | 10.1 % |
| Cerebrovascular degeneration | 2.6 % |
| Diabetes mellitus | 16.1 % |

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS*

ORIGIN OF MEDICARE PATIENT ADMISSION:

| | |
|---|---|
| County/City | 24.6% |
| State | 73.7% |
| Outside State | 1.7% |
| Total | 100.0% |

MEDICARE AVERAGE LENGTH OF STAY:

| | |
|---|---|
| Hospital | 6.6 Days |
| State | 7.2 Days |
| National | 8.6 Days |

## HOSPITAL CHARACTERISTICS*

SOURCE: Health Care Financing Administration (OSCAR)** - Survey Year 1989

PROFILE:

| | |
|---|---|
| Total Beds | 144 |
| Ownership.Control | Private, Non-Profit |
| Case Mix Index (CMI) | 1.0846 |

STAFFING:

| | |
|---|---|
| Medical Residents/Interns | 12 |
| Registered Nurses | 63 |
| Licensed Practical Nurses | 151 |

SPECIALTY SERVICES:

| | |
|---|---|
| Burn Unit | No |
| Coronary Care Unit | Yes |
| Hospice Care | No |
| Intensive Care Unit | Yes |
| Organ Transplant | No |
| Trauma Center | No |

OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

| | |
|---|---|
| Alcohol/Drug | No |
| Rehabilitation | No |
| Psychiatric | Yes |
| Medicare Swing Beds | No |

** Except for CMI

*** Not used in calculating mortality rates**

# SAN CARLOS GENERAL HOSPITAL

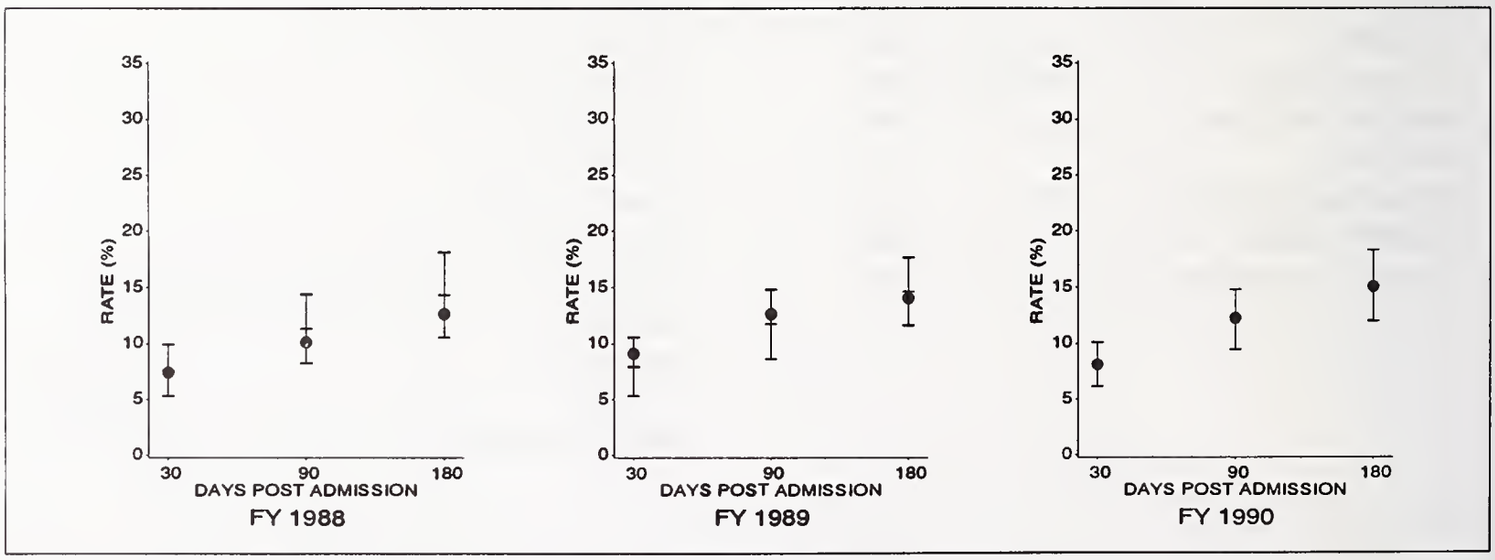
1822 PONCE DE LEON AVE
SANTURCE, PR 00909
Medicare Provider Number: 400017

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY | NUMBER OF CASES | MORTALITY RATES (%) 30 DAYS OBS | 30 DAYS PRED | 30 DAYS SD* | 90 DAYS OBS | 90 DAYS PRED | 90 DAYS SD* | 180 DAYS OBS | 180 DAYS PRED | 180 DAYS SD* |
|---|---|---|---|---|---|---|---|---|---|---|
| ALL CAUSES | 786 | 8.1 | 8.1 | 1.0 | 12.2 | 12.1 | 1.3 | 15.0 | 15.1 | 1.6 |
| CONDITIONS: | | | | | | | | | | |
| Acute Myocardial Infarction | 33 | 27.3 | 27.5 | ----- | 30.3 | 30.2 | ----- | 33.3 | 32.7 | ----- |
| Congestive Heart Failure | 57 | 14.0 | 13.5 | 5.9 | 26.3 | 22.0 | 6.3 | 31.6 | 28.2 | 8.1 |
| Pneumonia/Influenza | 38 | 5.3 | 15.6 | ----- | 5.3 | 20.7 | ----- | 5.3 | 24.3 | ----- |
| Chronic Obstructive Pulmonary Disease | 10 | 10.0 | 5.7 | ----- | 20.0 | 10.3 | ----- | 20.0 | 14.2 | ----- |
| Transient Cerebral Ischemia | 10 | 10.0 | 3.1 | ----- | 10.0 | 6.7 | ----- | 20.0 | 10.5 | ----- |
| Stroke | 20 | 25.0 | 16.7 | ----- | 30.0 | 23.4 | ----- | 30.0 | 27.1 | ----- |
| Hip Fracture | 6 | 16.7 | 5.0 | ----- | 16.7 | 9.0 | ----- | 16.7 | 11.9 | ----- |
| Sepsis | 1 | 100.0 | 52.2 | ----- | 100.0 | 56.1 | ----- | 100.0 | 60.2 | ----- |
| PROCEDURES: | | | | | | | | | | |
| Angioplasty | 0 | | | | | | | | | |
| Coronary Artery Bypass Graft | 0 | | | | | | | | | |
| Initial Pacemaker Insertion | 6 | 0.0 | 5.1 | ----- | 16.7 | 10.0 | ----- | 16.7 | 14.4 | ----- |
| Carotid Endarterectomy | 0 | | | | | | | | | |
| Hip Replacement/Reconstruction | 4 | 0.0 | 0.9 | ----- | 0.0 | 1.7 | ----- | 0.0 | 2.2 | ----- |
| Open Reduction of Hip Fracture | 2 | 0.0 | 5.1 | ----- | 0.0 | 10.6 | ----- | 0.0 | 14.4 | ----- |
| Prostatectomy | 18 | 0.0 | 1.1 | ----- | 0.0 | 2.4 | ----- | 5.6 | 4.0 | ----- |
| Cholecystectomy | 14 | 7.1 | 1.7 | ----- | 7.1 | 3.5 | ----- | 7.1 | 5.2 | ----- |
| Hysterectomy | 7 | 0.0 | 0.1 | ----- | 0.0 | 0.2 | ----- | 0.0 | 0.4 | ----- |

* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# SAN CARLOS GENERAL HOSPITAL

Medicare Provider Number: 400017

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

DEMOGRAPHICS:

| | |
|---|---|
| Average age at admission | 74.2 years |
| Proportion female | 60.2 % |

ADMISSION SOURCES/TYPES:

| | |
|---|---|
| Referred by personal or HMO physician | 46.1 % |
| Transferred from skilled nursing facility | 0.0 % |
| Admitted for elective procedure | 16.2 % |
| Admitted for emergency | 58.3 % |

COMORBIDITIES:

| | |
|---|---|
| Cancer | 2.3 % |
| Chronic cardiovascular disease | 30.3 % |
| Chronic liver disease | 2.0 % |
| Chronic renal disease | 2.2 % |
| Chronic pulmonary disease | 13.0 % |
| Cerebrovascular degeneration | 1.1 % |
| Diabetes mellitus | 19.8 % |

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS*

ORIGIN OF MEDICARE PATIENT ADMISSION:

| | |
|---|---|
| County/City | 72.2% |
| State | 26.9% |
| Outside State | 0.9% |
| Total | 100.0% |

MEDICARE AVERAGE LENGTH OF STAY:

| | |
|---|---|
| Hospital | 6.6 Days |
| State | 7.2 Days |
| National | 8.6 Days |

## HOSPITAL CHARACTERISTICS*

SOURCE: Health Care Financing Administration (OSCAR)** - Survey Year 1990

PROFILE:

| | |
|---|---|
| Total Beds | 96 |
| Ownership/Control | Private, For Profit |
| Case Mix Index (CMI) | 1.0622 |

STAFFING:

| | |
|---|---|
| Medical Residents/Interns | 0 |
| Registered Nurses | 34 |
| Licensed Practical Nurses | 35 |

SPECIALTY SERVICES:

| | |
|---|---|
| Burn Unit | No |
| Coronary Care Unit | No |
| Hospice Care | No |
| Intensive Care Unit | Yes |
| Organ Transplant | No |
| Trauma Center | No |

OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

| | |
|---|---|
| Alcohol/Drug | No |
| Rehabilitation | No |
| Psychiatric | No |
| Medicare Swing Beds | No |

** Except for CMI

*** Not used in calculating mortality rates**

# SAN GERARDO HOSPITAL

EL SENORIAL MAIL STATION #250
RIO PIEDRAS, PR 00928
Medicare Provider Number: 400116

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY | NUMBER OF CASES | MORTALITY RATES (%) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 30 DAYS | | | 90 DAYS | | | 180 DAYS | | |
| | | OBS | PRED | SD* | OBS | PRED | SD* | OBS | PRED | SD* |
| ALL CAUSES | 2 | 0.0 | 17.0 | ----- | 0.0 | 34.2 | ----- | 0.0 | 46.8 | ----- |
| CONDITIONS: | | | | | | | | | | |
| Acute Myocardial Infarction | 0 | | | | | | | | | |
| Congestive Heart Failure | 0 | | | | | | | | | |
| Pneumonia/Influenza | 0 | | | | | | | | | |
| Chronic Obstructive Pulmonary Disease | 0 | | | | | | | | | |
| Transient Cerebral Ischemia | 1 | 0.0 | 9.6 | ----- | 0.0 | 22.7 | ----- | 0.0 | 34.6 | ----- |
| Stroke | 0 | | | | | | | | | |
| Hip Fracture | 0 | | | | | | | | | |
| Sepsis | 0 | | | | | | | | | |
| PROCEDURES: | | | | | | | | | | |
| Angioplasty | 0 | | | | | | | | | |
| Coronary Artery Bypass Graft | 0 | | | | | | | | | |
| Initial Pacemaker Insertion | 0 | | | | | | | | | |
| Carotid Endarterectomy | 0 | | | | | | | | | |
| Hip Replacement/Reconstruction | 0 | | | | | | | | | |
| Open Reduction of Hip Fracture | 0 | | | | | | | | | |
| Prostatectomy | 0 | | | | | | | | | |
| Cholecystectomy | 0 | | | | | | | | | |
| Hysterectomy | 0 | | | | | | | | | |

* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES

No Graphs are presented when the standard deviation was not computed for one or more of the three fiscal years, (1988, 1989, or 1990)

# SAN GERARDO HOSPITAL
Medicare Provider Number: 400116

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

DEMOGRAPHICS:

| | |
|---|---|
| Average age at admission | 85.0 years |
| Proportion female | 100.0 % |

ADMISSION SOURCES/TYPES:

| | |
|---|---|
| Referred by personal or HMO physician | 0.0 % |
| Transferred from skilled nursing facility | 50.0 % |
| Admitted for elective procedure | 0.0 % |
| Admitted for emergency | 100.0 % |

COMORBIDITIES:

| | |
|---|---|
| Cancer | 0.0 % |
| Chronic cardiovascular disease | 50.0 % |
| Chronic liver disease | 0.0 % |
| Chronic renal disease | 0.0 % |
| Chronic pulmonary disease | 50.0 % |
| Cerebrovascular degeneration | 0.0 % |
| Diabetes mellitus | 100.0 % |

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS*

ORIGIN OF MEDICARE PATIENT ADMISSION:

| | |
|---|---|
| County/City | 0.0% |
| State | 100.0% |
| Outside State | 0.0% |
| Total | 100.0% |

MEDICARE AVERAGE LENGTH OF STAY:

| | |
|---|---|
| Hospital | 9.5 Days |
| State | 7.2 Days |
| National | 8.6 Days |

## HOSPITAL CHARACTERISTICS*

SOURCE: Health Care Financing Administration (OSCAR)** - Survey Year 1989

PROFILE:

| | |
|---|---|
| Total Beds | 60 |
| Ownership/Control | Private, For Profit |
| Case Mix Index (CMI) | 1.0815 |

STAFFING:

| | |
|---|---|
| Medical Residents/Interns | 7 |
| Registered Nurses | 9 |
| Licensed Practical Nurses | 0 |

SPECIALTY SERVICES:

| | |
|---|---|
| Burn Unit | No |
| Coronary Care Unit | No |
| Hospice Care | No |
| Intensive Care Unit | No |
| Organ Transplant | No |
| Trauma Center | No |

OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

| | |
|---|---|
| Alcohol/Drug | No |
| Rehabilitation | Yes |
| Psychiatric | Yes |
| Medicare Swing Beds | No |

** Except for CMI

*** Not used in calculating mortality rates**

# SAN GERMAN HEALTH CENTER

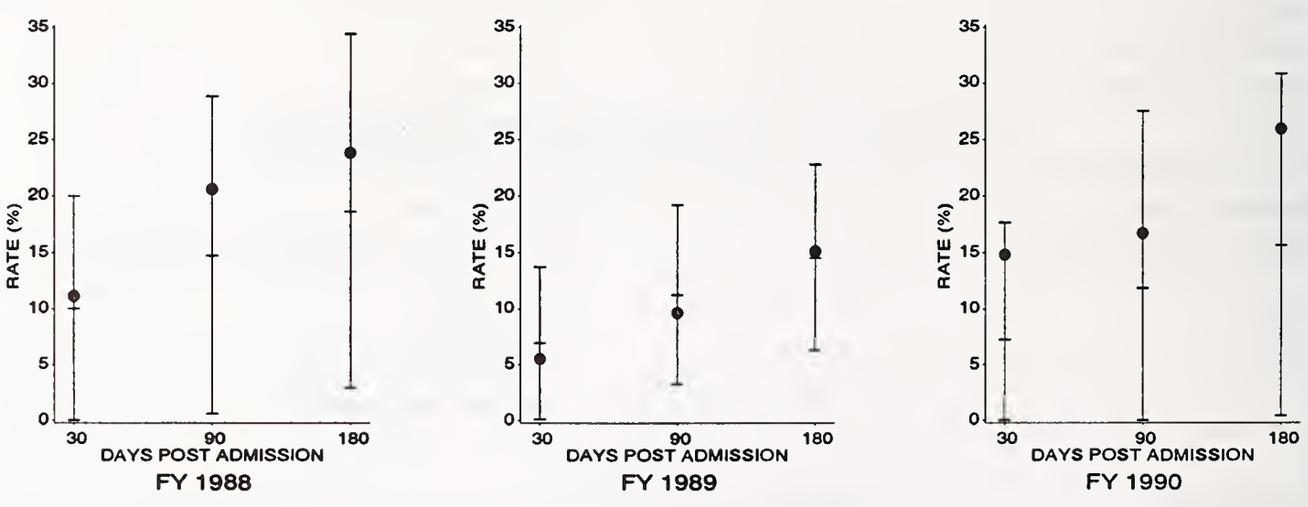
JAVILLA ST
SAN GERMAN, PR 00753
Medicare Provider Number: 400038

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY | NUMBER OF CASES | MORTALITY RATES (%) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 30 DAYS | | | 90 DAYS | | | 180 DAYS | | |
| | | OBS | PRED | SD* | OBS | PRED | SD* | OBS | PRED | SD* |
| ALL CAUSES | 54 | 14.8 | 7.2 | 5.2 | 16.7 | 11.8 | 7.8 | 25.9 | 15.6 | 7.6 |
| CONDITIONS: | | | | | | | | | | |
| Acute Myocardial Infarction | 0 | | | | | | | | | |
| Congestive Heart Failure | 2 | 0.0 | 7.8 | ----- | 0.0 | 13.0 | ----- | 0.0 | 17.7 | ----- |
| Pneumonia/Influenza | 7 | 42.9 | 16.1 | ----- | 42.9 | 20.8 | ----- | 42.9 | 24.2 | ----- |
| Chronic Obstructive Pulmonary Disease | 0 | | | | | | | | | |
| Transient Cerebral Ischemia | 0 | | | | | | | | | |
| Stroke | 1 | 100.0 | 20.4 | ----- | 100.0 | 22.8 | ----- | 100.0 | 25.4 | ----- |
| Hip Fracture | 0 | | | | | | | | | |
| Sepsis | 0 | | | | | | | | | |
| PROCEDURES: | | | | | | | | | | |
| Angioplasty | 0 | | | | | | | | | |
| Coronary Artery Bypass Graft | 0 | | | | | | | | | |
| Initial Pacemaker Insertion | 0 | | | | | | | | | |
| Carotid Endarterectomy | 0 | | | | | | | | | |
| Hip Replacement/Reconstruction | 0 | | | | | | | | | |
| Open Reduction of Hip Fracture | 0 | | | | | | | | | |
| Prostatectomy | 0 | | | | | | | | | |
| Cholecystectomy | 0 | | | | | | | | | |
| Hysterectomy | 0 | | | | | | | | | |

* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# SAN GERMAN HEALTH CENTER
Medicare Provider Number: 400038

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

DEMOGRAPHICS:

| | |
|---|---|
| Average age at admission | 75.9 years |
| Proportion female | 46.3 % |

ADMISSION SOURCES/TYPES:

| | |
|---|---|
| Referred by personal or HMO physician | 0.0 % |
| Transferred from skilled nursing facility | 0.0 % |
| Admitted for elective procedure | 0.0 % |
| Admitted for emergency | 92.6 % |

COMORBIDITIES:

| | |
|---|---|
| Cancer | 1.9 % |
| Chronic cardiovascular disease | 7.4 % |
| Chronic liver disease | 0.0 % |
| Chronic renal disease | 3.7 % |
| Chronic pulmonary disease | 7.4 % |
| Cerebrovascular degeneration | 0.0 % |
| Diabetes mellitus | 27.8 % |

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS*

ORIGIN OF MEDICARE PATIENT ADMISSION:

| | |
|---|---|
| County/City | 82.4% |
| State | 17.6% |
| Outside State | 0.0% |
| Total | 100.0% |

MEDICARE AVERAGE LENGTH OF STAY:

| | |
|---|---|
| Hospital | 7.6 Days |
| State | 7.2 Days |
| National | 8.6 Days |

## HOSPITAL CHARACTERISTICS*

SOURCE: Health Care Financing Administration (OSCAR)** - Survey Year 1989

PROFILE:

| | |
|---|---|
| Total Beds | 42 |
| Ownership/Control | State Government |
| Case Mix Index (CMI) | 0.9561 |

STAFFING:

| | |
|---|---|
| Medical Residents/Interns | 15 |
| Registered Nurses | 29 |
| Licensed Practical Nurses | 30 |

SPECIALTY SERVICES:

| | |
|---|---|
| Burn Unit | No |
| Coronary Care Unit | No |
| Hospice Care | No |
| Intensive Care Unit | No |
| Organ Transplant | No |
| Trauma Center | No |

OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

| | |
|---|---|
| Alcohol/Drug | No |
| Rehabilitation | No |
| Psychiatric | No |
| Medicare Swing Beds | No |

** Except for CMI

*** Not used in calculating mortality rates**

# SAN JORGE HOSPITAL

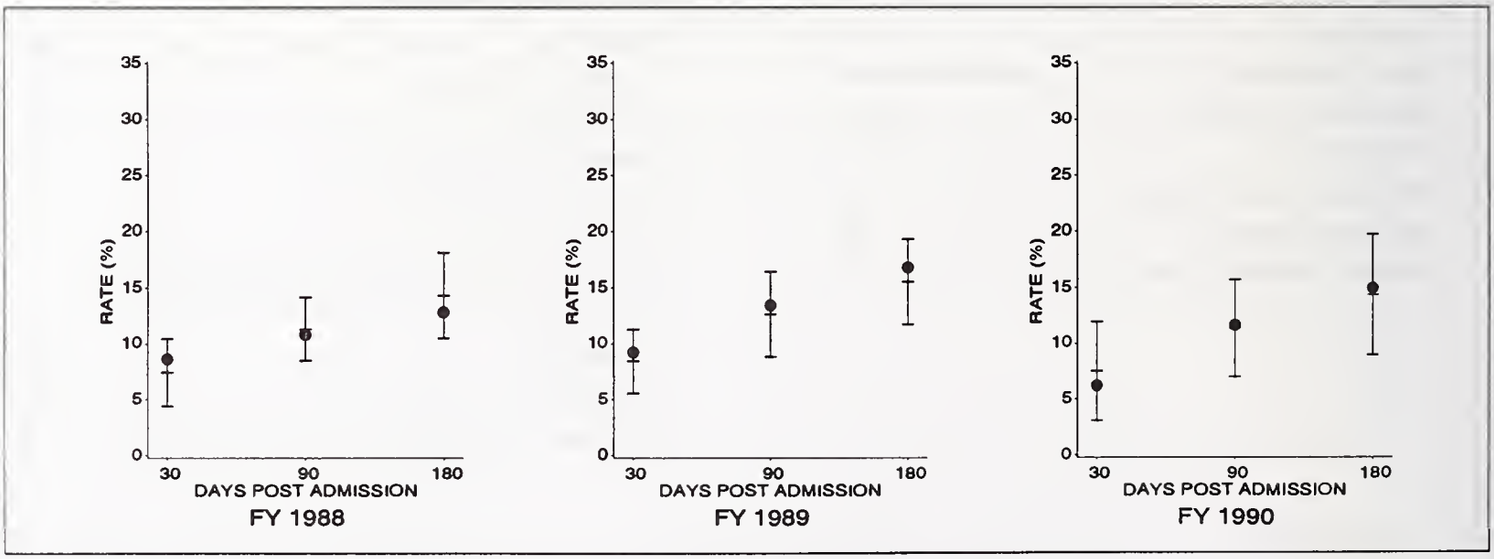
258 SAN JORGE AVENUE
SANTURCE, PR 00912
Medicare Provider Number: 400089

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY | NUMBER OF CASES | MORTALITY RATES (%) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 30 DAYS | | | 90 DAYS | | | 180 DAYS | | |
| | | OBS | PRED | SD* | OBS | PRED | SD* | OBS | PRED | SD* |
| ALL CAUSES | 242 | 6.2 | 7.5 | 2.2 | 11.6 | 11.3 | 2.2 | 14.9 | 14.3 | 2.7 |
| CONDITIONS: | | | | | | | | | | |
| Acute Myocardial Infarction | 3 | 33.3 | 30.0 | ----- | 33.3 | 32.8 | ----- | 33.3 | 35.7 | ----- |
| Congestive Heart Failure | 9 | 33.3 | 15.0 | ----- | 44.4 | 23.8 | ----- | 44.4 | 30.8 | ----- |
| Pneumonia/Influenza | 11 | 9.1 | 13.6 | ----- | 9.1 | 18.4 | ----- | 9.1 | 22.1 | ----- |
| Chronic Obstructive Pulmonary Disease | 1 | 0.0 | 8.1 | ----- | 0.0 | 14.4 | ----- | 0.0 | 19.0 | ----- |
| Transient Cerebral Ischemia | 1 | 0.0 | 1.7 | ----- | 0.0 | 3.8 | ----- | 0.0 | 6.3 | ----- |
| Stroke | 12 | 16.7 | 20.1 | ----- | 25.0 | 25.2 | ----- | 33.3 | 28.6 | ----- |
| Hip Fracture | 0 | | | | | | | | | |
| Sepsis | 3 | 33.3 | 37.8 | ----- | 33.3 | 44.9 | ----- | 33.3 | 48.7 | ----- |
| PROCEDURES: | | | | | | | | | | |
| Angioplasty | 0 | | | | | | | | | |
| Coronary Artery Bypass Graft | 0 | | | | | | | | | |
| Initial Pacemaker Insertion | 0 | | | | | | | | | |
| Carotid Endarterectomy | 0 | | | | | | | | | |
| Hip Replacement/Reconstruction | 0 | | | | | | | | | |
| Open Reduction of Hip Fracture | 0 | | | | | | | | | |
| Prostatectomy | 15 | 0.0 | 1.0 | ----- | 0.0 | 2.3 | ----- | 6.7 | 4.0 | ----- |
| Choiecystectomy | 9 | 0.0 | 4.6 | ----- | 11.1 | 10.6 | ----- | 22.2 | 15.7 | ----- |
| Hysterectomy | 4 | 0.0 | 0.1 | ----- | 0.0 | 0.2 | ----- | 0.0 | 0.4 | ----- |

* The Standard Deviation (SD) Is not calculated if the number of deaths or cases Is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# SAN JORGE HOSPITAL
Medicare Provider Number: 400089

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

DEMOGRAPHICS:

| | |
|---|---|
| Average age at admission | 74.6 years |
| Proportion female | 64.0 % |

ADMISSION SOURCES/TYPES:

| | |
|---|---|
| Referred by personal or HMO physician | 79.8 % |
| Transferred from skilled nursing facility | 0.0 % |
| Admitted for elective procedure | 32.2 % |
| Admitted for emergency | 62.8 % |

COMORBIDITIES:

| | |
|---|---|
| Cancer | 6.6 % |
| Chronic cardiovascular disease | 39.3 % |
| Chronic liver disease | 1.7 % |
| Chronic renal disease | 0.4 % |
| Chronic pulmonary disease | 15.3 % |
| Cerebrovascular degeneration | 0.4 % |
| Diabetes mellitus | 21.1 % |

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS*

ORIGIN OF MEDICARE PATIENT ADMISSION:

| | |
|---|---|
| County/City | 58.1% |
| State | 34.9% |
| Outside State | 7.0% |
| Total | 100.0% |

MEDICARE AVERAGE LENGTH OF STAY:

| | |
|---|---|
| Hospital | 6.9 Days |
| State | 7.2 Days |
| National | 8.6 Days |

## HOSPITAL CHARACTERISTICS*

SOURCE: Health Care Financing Administration (OSCAR)** - Survey Year 1989

PROFILE:

| | |
|---|---|
| Total Beds | 91 |
| Ownership/Control | Private, For Profit |
| Case Mix Index (CMI) | 1.0902 |

STAFFING:

| | |
|---|---|
| Medical Residents/Interns | 1 |
| Registered Nurses | 54 |
| Licensed Practical Nurses | 3 |

SPECIALTY SERVICES:

| | |
|---|---|
| Burn Unit | No |
| Coronary Care Unit | No |
| Hospice Care | No |
| Intensive Care Unit | Yes |
| Organ Transplant | No |
| Trauma Center | No |

OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

| | |
|---|---|
| Alcohol/Drug | No |
| Rehabilitation | No |
| Psychiatric | No |
| Medicare Swing Beds | No |

** Except for CMI

*** Not used in calculating mortality rates**

# SAN JUAN MUNICIPAL HOSPITAL

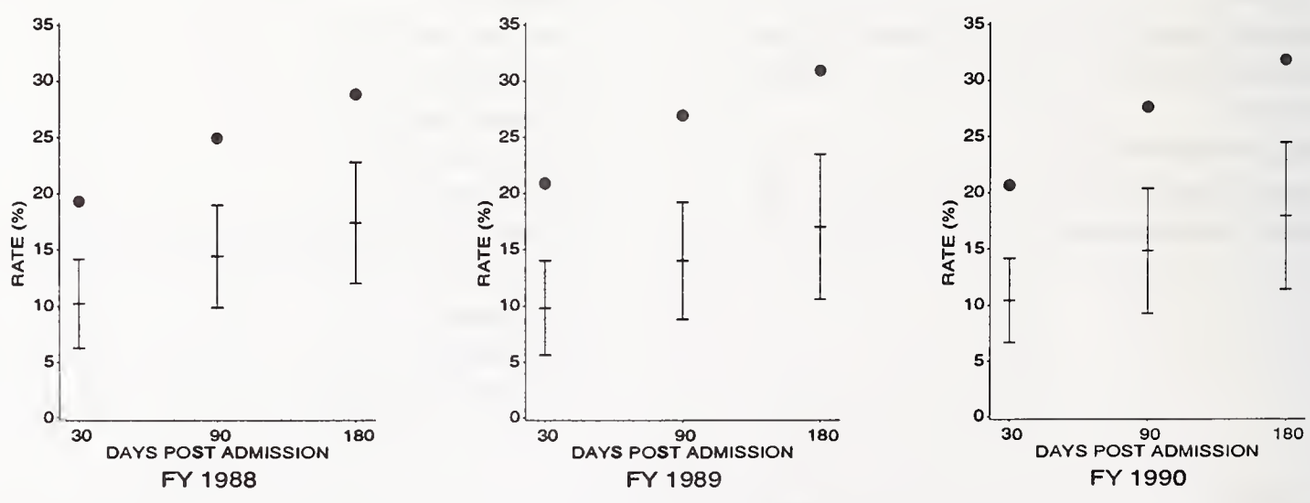
CENTRO MEDICO
RIO PIEDRAS, PR 00935
Medicare Provider Number: 400015

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY | NUMBER OF CASES | MORTALITY RATES (%) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 30 DAYS | | | 90 DAYS | | | 180 DAYS | | |
| | | OBS | PRED | SD* | OBS | PRED | SD* | OBS | PRED | SD* |
| ALL CAUSES | 1109 | 20.7 | 10.4 | 1.9 | 27.6 | 14.8 | 2.8 | 31.8 | 17.9 | 3.3 |
| CONDITIONS: | | | | | | | | | | |
| Acute Myocardial Infarction | 65 | 27.7 | 24.0 | 5.8 | 32.3 | 26.1 | 6.6 | 35.4 | 28.5 | 7.9 |
| Congestive Heart Failure | 52 | 30.8 | 12.9 | 6.1 | 38.5 | 20.7 | 8.3 | 55.8 | 26.2 | 9.1 |
| Pneumonia/Influenza | 53 | 34.0 | 13.5 | 7.8 | 52.8 | 18.2 | 6.9 | 52.8 | 21.8 | 6.4 |
| Chronic Obstructive Pulmonary Disease | 5 | 0.0 | 8.2 | ----- | 0.0 | 12.8 | ----- | 0.0 | 15.7 | ----- |
| Transient Cerebral Ischemia | 6 | 0.0 | 1.0 | ----- | 0.0 | 2.2 | ----- | 16.7 | 3.7 | ----- |
| Stroke | 58 | 50.0 | 20.2 | 8.2 | 60.3 | 25.3 | 7.9 | 65.5 | 28.5 | 8.9 |
| Hip Fracture | 26 | 23.1 | 6.1 | ----- | 38.5 | 10.5 | ----- | 42.3 | 13.8 | ----- |
| Sepsis | 20 | 70.0 | 29.2 | ----- | 80.0 | 34.8 | ----- | 85.0 | 38.9 | ----- |
| PROCEDURES: | | | | | | | | | | |
| Angioplasty | 0 | | | | | | | | | |
| Coronary Artery Bypass Graft | 2 | 50.0 | 14.0 | ----- | 50.0 | 18.1 | ----- | 50.0 | 19.9 | ----- |
| Initial Pacemaker Insertion | 4 | 0.0 | 1.3 | ----- | 0.0 | 2.7 | ----- | 0.0 | 4.2 | ----- |
| Carotid Endarterectomy | 0 | | | | | | | | | |
| Hip Replacement/Reconstruction | 6 | 33.3 | 5.3 | ----- | 50.0 | 9.5 | ----- | 50.0 | 12.9 | ----- |
| Open Reduction of Hip Fracture | 13 | 7.7 | 4.5 | ----- | 15.4 | 8.3 | ----- | 23.1 | 11.0 | ----- |
| Prostatectomy | 28 | 3.6 | 0.7 | ----- | 7.1 | 1.7 | ----- | 10.7 | 3.0 | ----- |
| Cholecystectomy | 4 | 0.0 | 1.9 | ----- | 0.0 | 3.0 | ----- | 25.0 | 3.9 | ----- |
| Hysterectomy | 14 | 0.0 | 0.4 | ----- | 0.0 | 0.9 | ----- | 0.0 | 1.4 | ----- |

* The Standard Deviation (SD) Is not calculated if the number of deaths or cases Is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# SAN JUAN MUNICIPAL HOSPITAL
Medicare Provider Number: 400015

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

DEMOGRAPHICS:

| | |
|---|---|
| Average age at admission | 73.6 years |
| Proportion female | 48.8 % |

ADMISSION SOURCES/TYPES:

| | |
|---|---|
| Referred by personal or HMO physician | 0.7 % |
| Transferred from skilled nursing facility | 0.0 % |
| Admitted for elective procedure | 17.0 % |
| Admitted for emergency | 80.0 % |

COMORBIDITIES:

| | |
|---|---|
| Cancer | 4.3 % |
| Chronic cardiovascular disease | 11.7 % |
| Chronic liver disease | 1.8 % |
| Chronic renal disease | 0.4 % |
| Chronic pulmonary disease | 4.4 % |
| Cerebrovascular degeneration | 0.6 % |
| Diabetes mellitus | 7.5 % |

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS*

ORIGIN OF MEDICARE PATIENT ADMISSION:

| | |
|---|---|
| County/City | 90.6% |
| State | 8.4% |
| Outside State | 1.0% |
| Total | 100.0% |

MEDICARE AVERAGE LENGTH OF STAY:

| | |
|---|---|
| Hospital | 8.9 Days |
| State | 7.2 Days |
| National | 8.6 Days |

## HOSPITAL CHARACTERISTICS*

SOURCE: Health Care Financing Administration (OSCAR)** - Survey Year 1989

PROFILE:

| | |
|---|---|
| Total Beds | 550 |
| Ownership/Control | Local Government |
| Case Mix Index (CMI) | 1.1382 |

STAFFING:

| | |
|---|---|
| Medical Residents/Interns | 90 |
| Registered Nurses | 314 |
| Licensed Practical Nurses | 238 |

SPECIALTY SERVICES:

| | |
|---|---|
| Burn Unit | No |
| Coronary Care Unit | Yes |
| Hospice Care | No |
| Intensive Care Unit | Yes |
| Organ Transplant | No |
| Trauma Center | Yes |

OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

| | |
|---|---|
| Alcohol/Drug | No |
| Rehabilitation | No |
| Psychiatric | Yes |
| Medicare Swing Beds | No |

** Except for CMI

*** Not used in calculating mortality rates**

# SAN PABLO HOSPITAL

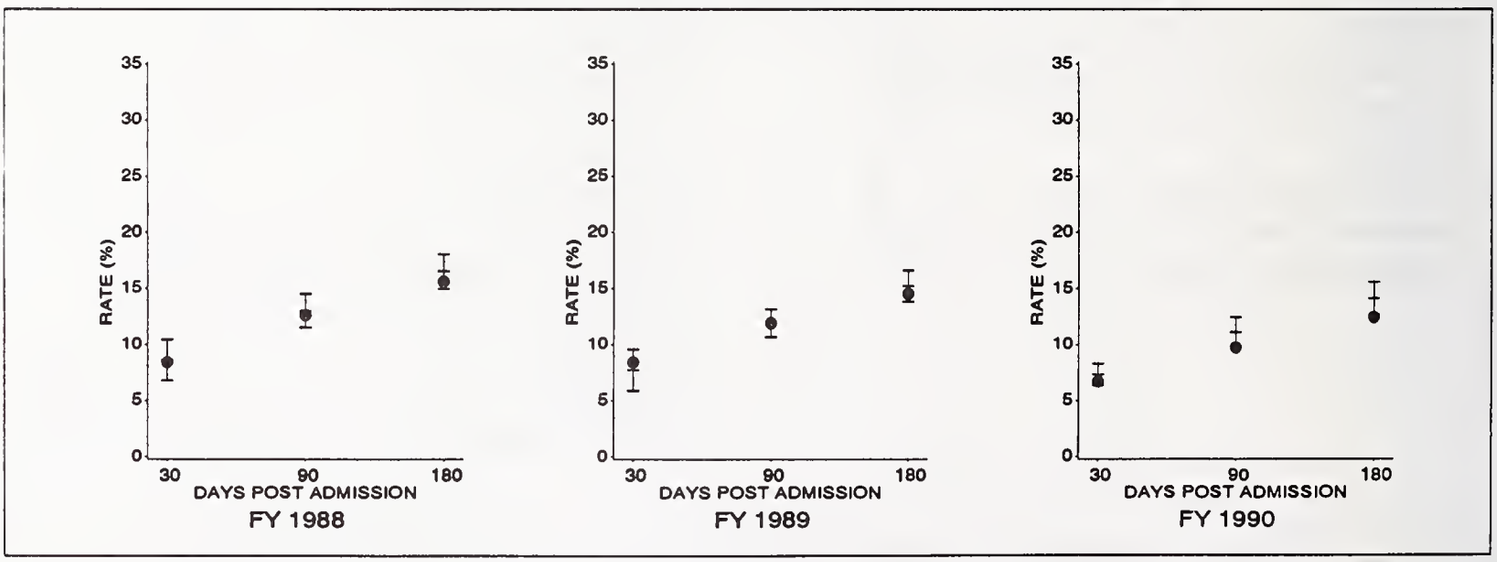
70 SANTA CRUZ ST URB SANTA CRUZ
BAYAMON, PR 00619
Medicare Provider Number: 400109

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY | NUMBER OF CASES | MORTALITY RATES (%) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 30 DAYS | | | 90 DAYS | | | 180 DAYS | | |
| | | OBS | PRED | SD* | OBS | PRED | SD* | OBS | PRED | SD* |
| ALL CAUSES | 3346 | 6.7 | 7.3 | 0.5 | 9.7 | 11.1 | 0.7 | 12.4 | 14.1 | 0.7 |
| CONDITIONS: | | | | | | | | | | |
| Acute Myocardial Infarction | 74 | 24.3 | 27.0 | 7.7 | 27.0 | 29.9 | 7.7 | 31.1 | 32.7 | 7.2 |
| Congestive Heart Failure | 187 | 12.8 | 14.2 | 2.7 | 19.3 | 22.8 | 3.5 | 23.0 | 29.1 | 4.3 |
| Pneumonia/Influenza | 116 | 25.9 | 19.9 | 6.0 | 30.2 | 26.4 | 5.4 | 32.8 | 30.2 | 4.7 |
| Chronic Obstructive Pulmonary Disease | 18 | 11.1 | 11.4 | ----- | 27.8 | 19.2 | ----- | 44.4 | 25.0 | ----- |
| Transient Cerebral Ischemia | 24 | 4.2 | 1.6 | ----- | 4.2 | 3.6 | ----- | 4.2 | 5.8 | ----- |
| Stroke | 100 | 23.0 | 23.1 | 8.7 | 25.0 | 30.1 | 7.5 | 29.0 | 33.8 | 7.9 |
| Hip Fracture | 40 | 12.5 | 6.1 | ----- | 17.5 | 10.3 | ----- | 25.0 | 13.3 | ----- |
| Sepsis | 12 | 33.3 | 45.1 | ----- | 58.3 | 53.2 | ----- | 75.0 | 58.2 | ----- |
| PROCEDURES: | | | | | | | | | | |
| Angioplasty | 13 | 7.7 | 1.3 | ----- | 7.7 | 2.2 | ----- | 7.7 | 3.2 | ----- |
| Coronary Artery Bypass Graft | 160 | 0.6 | 3.9 | 2.1 | 1.9 | 5.9 | 2.6 | 2.5 | 6.9 | 2.8 |
| Initial Pacemaker Insertion | 45 | 2.2 | 2.8 | ----- | 6.7 | 5.3 | ----- | 8.9 | 7.7 | ----- |
| Carotid Endarterectomy | 8 | 0.0 | 1.5 | ----- | 0.0 | 2.9 | ----- | 0.0 | 4.7 | ----- |
| Hip Repiacement/Reconstruction | 22 | 13.6 | 3.6 | ----- | 18.2 | 6.4 | ----- | 27.3 | 8.5 | ----- |
| Open Reduction of Hip Fracture | 17 | 11.8 | 5.7 | ----- | 11.8 | 10.1 | ----- | 17.6 | 13.2 | ----- |
| Prostatectomy | 171 | 0.6 | 0.7 | 1.1 | 1.2 | 1.5 | 1.7 | 2.3 | 2.6 | 1.8 |
| Cholecystectomy | 97 | 1.0 | 1.7 | 1.7 | 1.0 | 3.3 | 2.5 | 1.0 | 4.4 | 3.1 |
| Hysterectomy | 43 | 0.0 | 0.1 | ----- | 0.0 | 0.3 | ----- | 0.0 | 0.6 | ----- |

* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# SAN PABLO HOSPITAL
Medicare Provider Number: 400109

## FY199u VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

DEMOGRAPHICS:

| | |
|---|---|
| Average age at admission | 72.4 years |
| Proportion female | 51.9 % |

ADMISSION SOURCES/TYPES:

| | |
|---|---|
| Referred by personal or HMO physician | 54.5 % |
| Transferred from skilled nursing facility | 0.0 % |
| Admitted for elective procedure | 37.8 % |
| Admitted for emergency | 60.8 % |

COMORBIDITIES:

| | |
|---|---|
| Cancer | 6.5 % |
| Chronic cardiovascular disease | 42.7 % |
| Chronic liver disease | 1.4 % |
| Chronic renal disease | 1.8 % |
| Chronic pulmonary disease | 13.2 % |
| Cerebrovascular degeneration | 0.7 % |
| Diabetes mellitus | 21.7 % |

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS*

ORIGIN OF MEDICARE PATIENT ADMISSION:

| | |
|---|---|
| County/City | 34.5% |
| State | 63.7% |
| Outside State | 1.8% |
| Total | 100.0% |

MEDICARE AVERAGE LENGTH OF STAY:

| | |
|---|---|
| Hospital | 7.1 Days |
| State | 7.2 Days |
| National | 8.6 Days |

## HOSPITAL CHARACTERISTICS*

SOURCE: Health Care Financing Administration (OSCAR)** - Survey Year 1990

PROFILE:

| | |
|---|---|
| Total Beds | 330 |
| Ownership/Control | Private, For Profit |
| Case Mix Index (CMI) | 1.3932 |

STAFFING:

| | |
|---|---|
| Medical Residents/Interns | 1 |
| Registered Nurses | 27 |
| Licensed Practical Nurses | 154 |

SPECIALTY SERVICES:

| | |
|---|---|
| Burn Unit | No |
| Coronary Care Unit | Yes |
| Hospice Care | No |
| Intensive Care Unit | Yes |
| Organ Transplant | No |
| Trauma Center | No |

OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

| | |
|---|---|
| Alcohol/Drug | No |
| Rehabilitation | Yes |
| Psychiatric | No |
| Medicare Swing Beds | No |

** Except for CMI

*** Not used in calculating mortality rates**

# SANTA ROSA CLINIC

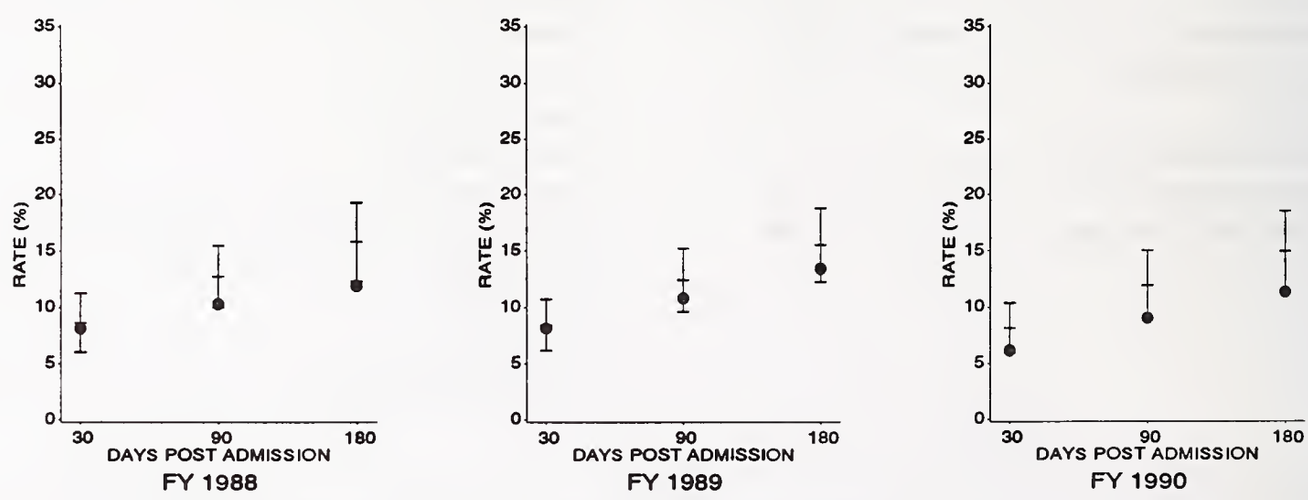
PO BOX 988
GUAYAMA, PR 00654
Medicare Provider Number: 400009

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY | NUMBER OF CASES | MORTALITY RATES (%) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 30 DAYS | | | 90 DAYS | | | 180 DAYS | | |
| | | OBS | PRED | SD* | OBS | PRED | SD* | OBS | PRED | SD* |
| ALL CAUSES | 964 | 6.1 | 8.1 | 1.1 | 9.0 | 11.9 | 1.5 | 11.3 | 14.9 | 1.8 |
| CONDITIONS: | | | | | | | | | | |
| Acute Myocardial Infarction | 44 | 13.6 | 23.9 | ----- | 15.9 | 27.4 | ----- | 18.2 | 30.4 | ----- |
| Congestive Heart Failure | 50 | 12.0 | 13.4 | ----- | 24.0 | 20.9 | ----- | 28.0 | 26.9 | ----- |
| Pneumonia/Influenza | 38 | 15.8 | 14.6 | ----- | 15.8 | 19.3 | ----- | 18.4 | 22.8 | ----- |
| Chronic Obstructive Pulmonary Disease | 23 | 4.3 | 6.9 | ----- | 13.0 | 13.1 | ----- | 13.0 | 17.4 | ----- |
| Transient Cerebral Ischemia | 20 | 0.0 | 1.5 | ----- | 0.0 | 3.5 | ----- | 0.0 | 5.7 | ----- |
| Stroke | 38 | 15.8 | 20.5 | ----- | 18.4 | 27.1 | ----- | 21.1 | 30.9 | ----- |
| Hip Fracture | 1 | 100.0 | 15.3 | ----- | 100.0 | 23.1 | ----- | 100.0 | 28.7 | ----- |
| Sepsis | 2 | 0.0 | 49.9 | ----- | 0.0 | 63.1 | ----- | 0.0 | 68.2 | ----- |
| PROCEDURES: | | | | | | | | | | |
| Angioplasty | 0 | | | | | | | | | |
| Coronary Artery Bypass Graft | 0 | | | | | | | | | |
| Initial Pacemaker Insertion | 0 | | | | | | | | | |
| Carotid Endarterectomy | 0 | | | | | | | | | |
| Hip Replacement/Reconstruction | 0 | | | | | | | | | |
| Open Reduction of Hip Fracture | 0 | | | | | | | | | |
| Prostatectomy | 18 | 0.0 | 1.1 | ----- | 0.0 | 2.0 | ----- | 0.0 | 3.3 | ----- |
| Cholecystectomy | 25 | 0.0 | 1.9 | ----- | 4.0 | 3.2 | ----- | 8.0 | 4.1 | ----- |
| Hysterectomy | 0 | | | | | | | | | |

* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# SANTA ROSA CLINIC
Medicare Provider Number: 400009

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

DEMOGRAPHICS:

| | |
|---|---|
| Average age at admission | 74.6 years |
| Proportion female | 50.6 % |

ADMISSION SOURCES/TYPES:

| | |
|---|---|
| Referred by personal or HMO physician | 20.4 % |
| Transferred from skilled nursing facility | 0.0 % |
| Admitted for elective procedure | 3.7 % |
| Admitted for emergency | 63.8 % |

COMORBIDITIES:

| | |
|---|---|
| Cancer | 1.8 % |
| Chronic cardiovascular disease | 53.4 % |
| Chronic liver disease | 1.7 % |
| Chronic renal disease | 1.1 % |
| Chronic pulmonary disease | 20.2 % |
| Cerebrovascular degeneration | 1.5 % |
| Diabetes mellitus | 12.9 % |

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS*

ORIGIN OF MEDICARE PATIENT ADMISSION:

| | |
|---|---|
| County/City | 48.3% |
| State | 50.3% |
| Outside State | 1.4% |
| Total | 100.0% |

MEDICARE AVERAGE LENGTH OF STAY:

| | |
|---|---|
| Hospital | 6.6 Days |
| State | 7.2 Days |
| National | 8.6 Days |

## HOSPITAL CHARACTERISTICS*

SOURCE: Health Care Financing Administration (OSCAR)** - Survey Year 1991

PROFILE:

| | |
|---|---|
| Total Beds | 99 |
| Ownership.Control | Private, Non-Profit |
| Case Mix Index (CMI) | 0.9774 |

STAFFING:

| | |
|---|---|
| Medical Residents/Interns | 6 |
| Registered Nurses | 47 |
| Licensed Practical Nurses | 17 |

SPECIALTY SERVICES:

| | |
|---|---|
| Burn Unit | No |
| Coronary Care Unit | No |
| Hospice Care | No |
| Intensive Care Unit | Yes |
| Organ Transplant | No |
| Trauma Center | No |

OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

| | |
|---|---|
| Alcohol/Drug | No |
| Rehabilitation | No |
| Psychiatric | No |
| Medicare Swing Beds | No |

** Except for CMI

*** Not used in calculating mortality rates**

# SANTO ASILO DE DAMAS HOSPITAL

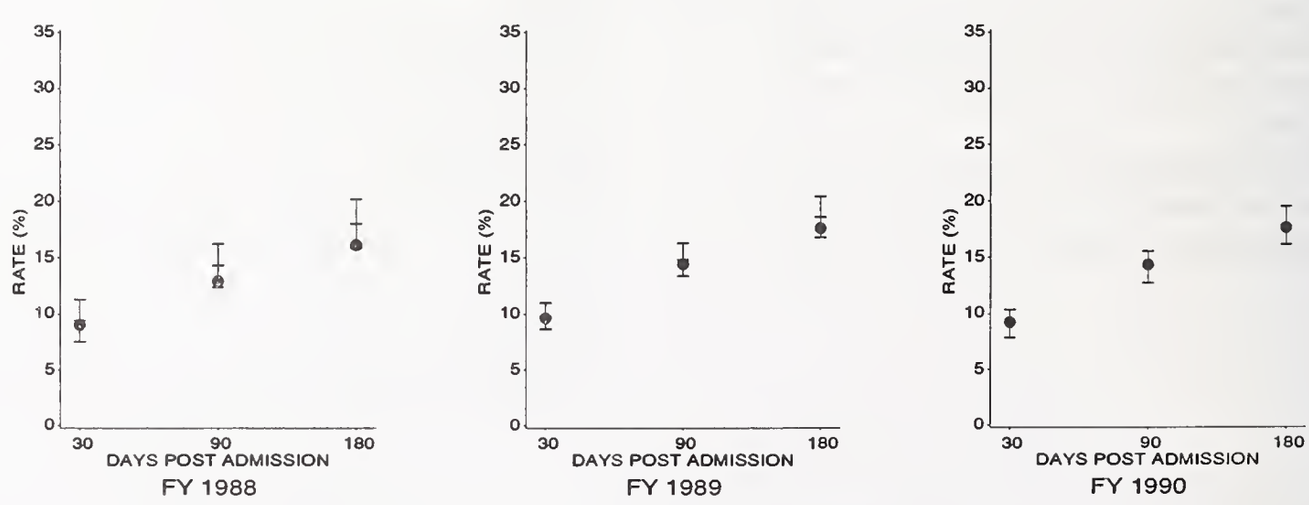
PONCE BY PASS
PONCE, PR 00731
Medicare Provider Number: 400022

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY | NUMBER OF CASES | MORTALITY RATES (%) 30 DAYS OBS | 30 DAYS PRED | 30 DAYS SD* | 90 DAYS OBS | 90 DAYS PRED | 90 DAYS SD* | 180 DAYS OBS | 180 DAYS PRED | 180 DAYS SD* |
|---|---|---|---|---|---|---|---|---|---|---|
| ALL CAUSES | 2483 | 9.2 | 9.1 | 0.6 | 14.3 | 14.1 | 0.7 | 17.6 | 17.8 | 0.9 |
| CONDITIONS: | | | | | | | | | | |
| Acute Myocardial Infarction | 84 | 31.0 | 27.8 | 5.4 | 39.3 | 30.9 | 7.3 | 41.7 | 33.6 | 7.4 |
| Congestive Heart Failure | 141 | 8.5 | 13.3 | 4.3 | 16.3 | 21.7 | 5.1 | 20.6 | 28.3 | 5.8 |
| Pneumonia/Influenza | 87 | 19.5 | 15.2 | 4.6 | 27.6 | 20.8 | 6.3 | 32.2 | 24.2 | 5.8 |
| Chronic Obstructive Pulmonary Disease | 26 | 3.8 | 7.4 | ----- | 3.8 | 13.6 | ----- | 7.7 | 18.0 | ----- |
| Transient Cerebral Ischemia | 37 | 5.4 | 1.6 | ----- | 8.1 | 3.7 | ----- | 10.8 | 6.0 | ----- |
| Stroke | 96 | 27.1 | 19.6 | 7.9 | 30.2 | 26.6 | 6.5 | 33.3 | 30.6 | 5.9 |
| Hip Fracture | 55 | 9.1 | 6.9 | 3.9 | 16.4 | 12.1 | 6.2 | 18.2 | 15.7 | 6.5 |
| Sepsis | 53 | 34.0 | 34.1 | 6.7 | 39.6 | 41.6 | 6.9 | 50.9 | 46.0 | 7.9 |
| PROCEDURES: | | | | | | | | | | |
| Angioplasty | 0 | | | | | | | | | |
| Coronary Artery Bypass Graft | 0 | | | | | | | | | |
| Initial Pacemaker Insertion | 13 | 0.0 | 4.1 | ----- | 7.7 | 7.6 | ----- | 7.7 | 11.0 | ----- |
| Carotid Endarterectomy | 0 | | | | | | | | | |
| Hip Replacement/Reconstruction | 17 | 11.8 | 5.7 | ----- | 17.6 | 10.0 | ----- | 23.5 | 13.4 | ----- |
| Open Reduction of Hip Fracture | 33 | 6.1 | 6.7 | ----- | 15.2 | 12.1 | ----- | 15.2 | 15.7 | ----- |
| Prostatectomy | 73 | 1.4 | 1.2 | 1.3 | 1.4 | 2.8 | 2.3 | 2.7 | 4.8 | 3.0 |
| Cholecystectomy | 50 | 2.0 | 2.5 | ----- | 4.0 | 4.8 | ----- | 6.0 | 6.7 | ----- |
| Hysterectomy | 22 | 0.0 | 0.1 | ----- | 0.0 | 0.4 | ----- | 0.0 | 0.6 | ----- |

* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# SANTO ASILO DE DAMAS HOSPITAL

Medicare Provider Number: 400022

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

DEMOGRAPHICS:

| | |
|---|---|
| Average age at admission | 73.2 years |
| Proportion female | 52.4 % |

ADMISSION SOURCES/TYPES:

| | |
|---|---|
| Referred by personal or HMO physician | 45.6 % |
| Transferred from skilled nursing facility | 0.1 % |
| Admitted for elective procedure | 8.9 % |
| Admitted for emergency | 52.0 % |

COMORBIDITIES:

| | |
|---|---|
| Cancer | 5.5 % |
| Chronic cardiovascular disease | 25.1 % |
| Chronic liver disease | 2.0 % |
| Chronic renal disease | 9.0 % |
| Chronic pulmonary disease | 11.6 % |
| Cerebrovascular degeneration | 0.4 % |
| Diabetes mellitus | 23.3 % |

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS*

ORIGIN OF MEDICARE PATIENT ADMISSION:

| | |
|---|---|
| County/City | 46.4% |
| State | 52.5% |
| Outside State | 1.1% |
| Total | 100.0% |

MEDICARE AVERAGE LENGTH OF STAY:

| | |
|---|---|
| Hospital | 7.3 Days |
| State | 7.2 Days |
| National | 8.6 Days |

## HOSPITAL CHARACTERISTICS*

SOURCE: Health Care Financing Administration (OSCAR)** - Survey Year 1988

PROFILE:

| | |
|---|---|
| Total Beds | 306 |
| Ownership.Control | Private, Non-Profit |
| Case Mix Index (CMI) | 1.2855 |

STAFFING:

| | |
|---|---|
| Medical Residents/Interns | 10 |
| Registered Nurses | 188 |
| Licensed Practical Nurses | 77 |

SPECIALTY SERVICES:

| | |
|---|---|
| Burn Unit | No |
| Coronary Care Unit | Yes |
| Hospice Care | No |
| Intensive Care Unit | Yes |
| Organ Transplant | No |
| Trauma Center | No |

OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

| | |
|---|---|
| Alcohol/Drug | No |
| Rehabilitation | No |
| Psychiatric | No |
| Medicare Swing Beds | No |

** Except for CMI

*** Not used in calculating mortality rates**

# ST LUKES EPISCOPAL HOSPITAL

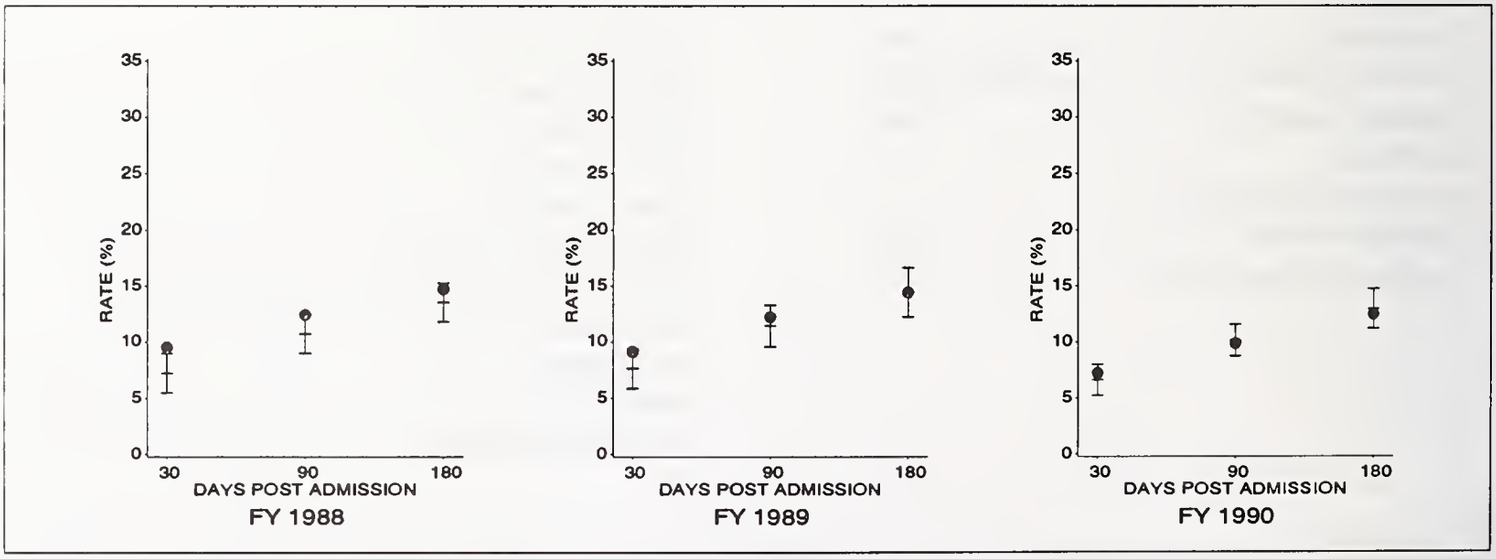
PO BOX 2027
PONCE, PR 00731
Medicare Provider Number: 400002

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY | NUMBER OF CASES | MORTALITY RATES (%) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 30 DAYS | | | 90 DAYS | | | 180 DAYS | | |
| | | OBS | PRED | SD* | OBS | PRED | SD* | OBS | PRED | SD* |
| ALL CAUSES | 1958 | 7.2 | 6.6 | 0.7 | 9.8 | 10.1 | 0.7 | 12.4 | 12.9 | 0.9 |
| CONDITIONS: | | | | | | | | | | |
| Acute Myocardial Infarction | 71 | 31.0 | 26.5 | 7.8 | 36.6 | 30.3 | 8.3 | 38.0 | 33.2 | 7.5 |
| Congestive Heart Failure | 120 | 14.2 | 13.0 | 3.1 | 18.3 | 21.0 | 3.9 | 22.5 | 27.4 | 4.7 |
| Pneumonia/Influenza | 51 | 15.7 | 14.0 | 5.1 | 23.5 | 19.0 | 8.1 | 25.5 | 22.5 | 10.3 |
| Chronic Obstructive Pulmonary Disease | 12 | 0.0 | 8.2 | ----- | 25.0 | 14.6 | ----- | 25.0 | 19.8 | ----- |
| Transient Cerebral Ischemia | 28 | 7.1 | 1.7 | ----- | 10.7 | 4.1 | ----- | 14.3 | 6.8 | ----- |
| Stroke | 58 | 15.5 | 17.1 | 5.4 | 17.2 | 24.1 | 7.6 | 24.1 | 28.1 | 7.1 |
| Hip Fracture | 12 | 0.0 | 5.6 | ----- | 0.0 | 9.8 | ----- | 0.0 | 12.5 | ----- |
| Sepsis | 16 | 25.0 | 21.3 | ----- | 31.3 | 28.2 | ----- | 43.8 | 32.7 | ----- |
| PROCEDURES: | | | | | | | | | | |
| Angioplasty | 7 | 0.0 | 0.7 | ----- | 0.0 | 1.2 | ----- | 0.0 | 1.7 | ----- |
| Coronary Artery Bypass Graft | 49 | 24.5 | 3.3 | ----- | 24.5 | 5.4 | ----- | 24.5 | 6.5 | ----- |
| Initial Pacemaker Insertion | 49 | 6.1 | 2.4 | ----- | 6.1 | 4.5 | ----- | 10.2 | 6.8 | ----- |
| Carotid Endarterectomy | 1 | 0.0 | 3.5 | ----- | 0.0 | 5.6 | ----- | 0.0 | 7.5 | ----- |
| Hip Replacement/Reconstruction | 3 | 0.0 | 8.0 | ----- | 0.0 | 14.7 | ----- | 0.0 | 18.8 | ----- |
| Open Reduction of Hip Fracture | 8 | 0.0 | 4.5 | ----- | 0.0 | 8.1 | ----- | 0.0 | 10.4 | ----- |
| Prostatectomy | 134 | 0.0 | 1.0 | 1.1 | 0.0 | 2.3 | 1.8 | 0.7 | 3.9 | 2.2 |
| Cholecystectomy | 32 | 6.3 | 1.7 | ----- | 6.3 | 3.0 | ----- | 6.3 | 4.0 | ----- |
| Hysterectomy | 16 | 0.0 | 0.1 | ----- | 0.0 | 0.2 | ----- | 0.0 | 0.4 | ----- |

* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# ST LUKES EPISCOPAL HOSPITAL

Medicare Provider Number: 400002

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

DEMOGRAPHICS:

| | |
|---|---|
| Average age at admission | 72.8 years |
| Proportion female | 46.3 % |

ADMISSION SOURCES/TYPES:

| | |
|---|---|
| Referred by personal or HMO physician | 41.2 % |
| Transferred from skilled nursing facility | 0.0 % |
| Admitted for elective procedure | 40.9 % |
| Admitted for emergency | 8.3 % |

COMORBIDITIES:

| | |
|---|---|
| Cancer | 2.3 % |
| Chronic cardiovascular disease | 48.2 % |
| Chronic liver disease | 1.3 % |
| Chronic renal disease | 1.9 % |
| Chronic pulmonary disease | 16.5 % |
| Cerebrovascular degeneration | 1.0 % |
| Diabetes mellitus | 23.2 % |

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS*

ORIGIN OF MEDICARE PATIENT ADMISSION:

| | |
|---|---|
| County/City | 50.5% |
| State | 47.7% |
| Outside State | 1.8% |
| Total | 100.0% |

MEDICARE AVERAGE LENGTH OF STAY:

| | |
|---|---|
| Hospital | 6.6 Days |
| State | 7.2 Days |
| National | 8.6 Days |

## HOSPITAL CHARACTERISTICS*

SOURCE: Health Care Financing Administration (OSCAR)** - Survey Year 1988

PROFILE:

| | |
|---|---|
| Total Beds | 160 |
| Ownership/Control | Church |
| Case Mix index (CMi) | 1.2883 |

STAFFING:

| | |
|---|---|
| Medical Residents/interns | 0 |
| Registered Nurses | 81 |
| Licensed Practical Nurses | 62 |

SPECIALTY SERVICES:

| | |
|---|---|
| Burn Unit | No |
| Coronary Care Unit | Yes |
| Hospice Care | No |
| Intensive Care Unit | Yes |
| Organ Transplant | No |
| Trauma Center | No |

OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

| | |
|---|---|
| Alcohol/Drug | No |
| Rehabilitation | No |
| Psychiatric | No |
| Medicare Swing Beds | No |

** Except for CMi

*** Not used in calculating mortality rates**

# UNIVERSITY DISTRICT HOSPITAL

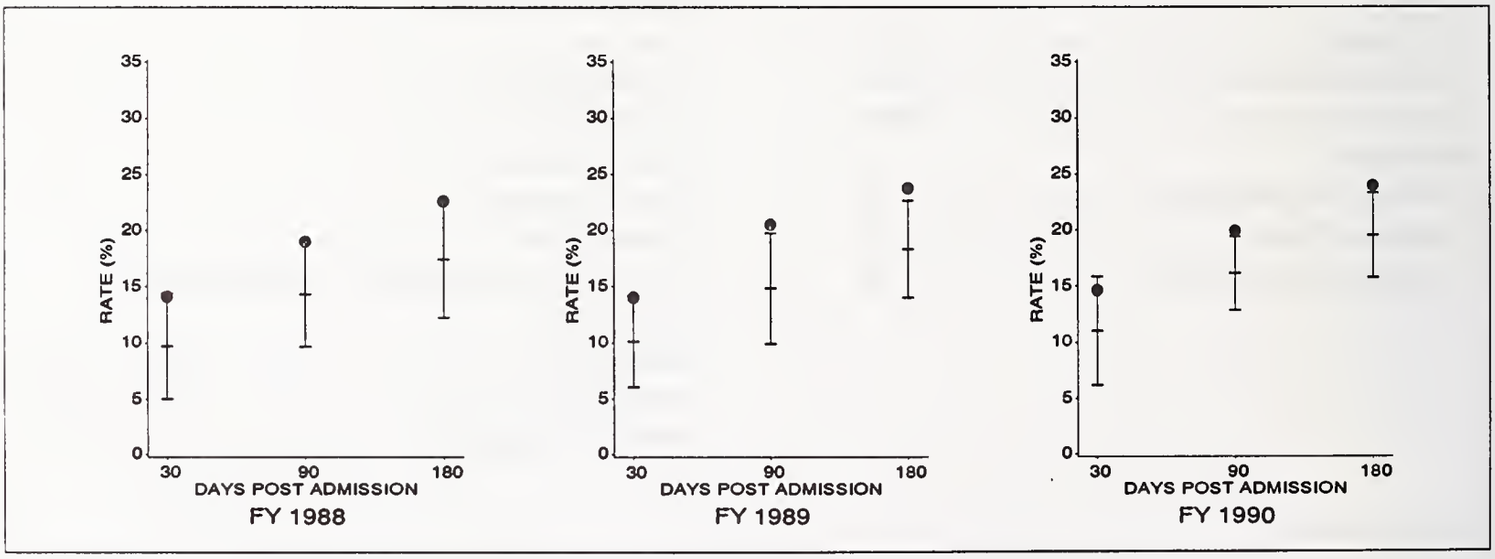
BARRIO MONACILLOS
RIO PIEDRAS, PR 00935
Medicare Provider Number: 400061

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY | NUMBER OF CASES | MORTALITY RATES (%) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 30 DAYS | | | 90 DAYS | | | 180 DAYS | | |
| | | OBS | PRED | SD* | OBS | PRED | SD* | OBS | PRED | SD* |
| ALL CAUSES | 987 | 14.6 | 11.0 | 2.4 | 19.9 | 16.1 | 1.6 | 23.9 | 19.5 | 1.9 |
| CONDITIONS: | | | | | | | | | | |
| Acute Myocardial Infarction | 14 | 21.4 | 30.1 | ----- | 21.4 | 33.1 | ----- | 28.6 | 35.4 | ----- |
| Congestive Heart Failure | 15 | 26.7 | 12.6 | ----- | 40.0 | 19.3 | ----- | 53.3 | 24.7 | ----- |
| Pneumonia/Influenza | 33 | 45.5 | 18.4 | ----- | 51.5 | 25.0 | ----- | 60.6 | 28.8 | ----- |
| Chronic Obstructive Pulmonary Disease | 2 | 0.0 | 10.3 | ----- | 0.0 | 17.0 | ----- | 0.0 | 22.6 | ----- |
| Transient Cerebral Ischemia | 2 | 0.0 | 1.6 | ----- | 0.0 | 3.7 | ----- | 0.0 | 6.2 | ----- |
| Stroke | 12 | 83.3 | 31.0 | ----- | 83.3 | 35.9 | ----- | 83.3 | 39.1 | ----- |
| Hip Fracture | 54 | 14.8 | 7.1 | 5.6 | 18.5 | 12.2 | 6.1 | 22.2 | 15.4 | 7.1 |
| Sepsis | 10 | 90.0 | 40.4 | ----- | 100.0 | 49.0 | ----- | 100.0 | 54.2 | ----- |
| PROCEDURES: | | | | | | | | | | |
| Angioplasty | 2 | 0.0 | 3.2 | ----- | 0.0 | 4.7 | ----- | 0.0 | 5.9 | ----- |
| Coronary Artery Bypass Graft | 18 | 5.6 | 6.3 | ----- | 5.6 | 7.8 | ----- | 5.6 | 8.8 | ----- |
| Initial Pacemaker Insertion | 17 | 0.0 | 6.3 | ----- | 5.9 | 12.3 | ----- | 11.8 | 16.6 | ----- |
| Carotid Endarterectomy | 1 | 0.0 | 1.4 | ----- | 0.0 | 2.3 | ----- | 0.0 | 3.5 | ----- |
| Hip Replacement/Reconstruction | 19 | 5.3 | 6.0 | ----- | 10.5 | 10.6 | ----- | 21.1 | 13.6 | ----- |
| Open Reduction of Hip Fracture | 28 | 17.9 | 7.4 | ----- | 21.4 | 13.3 | ----- | 21.4 | 17.2 | ----- |
| Prostatectomy | 14 | 0.0 | 1.0 | ----- | 0.0 | 2.3 | ----- | 0.0 | 4.0 | ----- |
| Cholecystectomy | 14 | 7.1 | 3.5 | ----- | 7.1 | 7.6 | ----- | 7.1 | 10.9 | ----- |
| Hysterectomy | 23 | 0.0 | 0.5 | ----- | 0.0 | 1.1 | ----- | 4.3 | 1.7 | ----- |

* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# UNIVERSITY DISTRICT HOSPITAL
Medicare Provider Number: 400061

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

DEMOGRAPHICS:

| | |
|---|---|
| Average age at admission | 70.2 years |
| Proportion female | 41.4 % |

ADMISSION SOURCES/TYPES:

| | |
|---|---|
| Referred by personal or HMO physician | 1.6 % |
| Transferred from skilled nursing facility | 0.0 % |
| Admitted for elective procedure | 22.2 % |
| Admitted for emergency | 70.9 % |

COMORBIDITIES:

| | |
|---|---|
| Cancer | 10.4 % |
| Chronic cardiovascular disease | 33.8 % |
| Chronic liver disease | 1.3 % |
| Chronic renal disease | 1.9 % |
| Chronic pulmonary disease | 8.5 % |
| Cerebrovascular degeneration | 1.1 % |
| Diabetes mellitus | 11.1 % |

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS*

ORIGIN OF MEDICARE PATIENT ADMISSION:

| | |
|---|---|
| County/City | 9.3% |
| State | 88.9% |
| Outside State | 1.8% |
| Total | 100.0% |

MEDICARE AVERAGE LENGTH OF STAY:

| | |
|---|---|
| Hospital | 11.0 Days |
| State | 7.2 Days |
| National | 8.6 Days |

## HOSPITAL CHARACTERISTICS*

SOURCE: Health Care Financing Administration (OSCAR)** - Survey Year 1990

PROFILE:

| | |
|---|---|
| Total Beds | 390 |
| Ownership/Control | State Government |
| Case Mix Index (CMI) | 1.7838 |

STAFFING:

| | |
|---|---|
| Medical Residents/Interns | 254 |
| Registered Nurses | 294 |
| Licensed Practical Nurses | 155 |

SPECIALTY SERVICES:

| | |
|---|---|
| Burn Unit | Yes |
| Coronary Care Unit | Yes |
| Hospice Care | No |
| Intensive Care Unit | Yes |
| Organ Transplant | No |
| Trauma Center | Yes |

OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

| | |
|---|---|
| Alcohol/Drug | No |
| Rehabilitation | No |
| Psychiatric | Yes |
| Medicare Swing Beds | No |

** Except for CMI

*** Not used in calculating mortality rates**

# PUERTO RICO

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY | NUMBER OF CASES | MORTALITY RATES (%) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 30 DAYS | | | 90 DAYS | | | 180 DAYS | | |
| | | OBS | PRED | SD* | OBS | PRED | SD* | OBS | PRED | SD* |
| ALL CAUSES | 58,799 | 10.4 | 8.9 | 0.4 | 14.7 | 13.3 | 0.3 | 17.8 | 16.6 | 0.3 |
| CONDITIONS: | | | | | | | | | | |
| Acute Myocardial Infarction | 1,937 | 28.9 | 27.0 | 1.3 | 33.3 | 29.8 | 1.8 | 35.9 | 32.5 | 1.7 |
| Congestive Heart Failure | 3,291 | 14.5 | 13.8 | 0.9 | 22.7 | 22.1 | 0.8 | 28.8 | 28.3 | 0.9 |
| Pneumonia/Influenza | 2,906 | 23.4 | 16.7 | 1.0 | 29.2 | 22.4 | 1.2 | 33.2 | 26.1 | 1.7 |
| Chronic Obstructive Pulmonary Disease | 543 | 6.4 | 8.1 | 1.3 | 11.2 | 14.4 | 2.0 | 14.9 | 19.2 | 2.6 |
| Transient Cerebral Ischemia | 790 | 3.4 | 1.7 | 0.8 | 6.1 | 3.9 | 1.0 | 9.0 | 6.4 | 1.3 |
| Stroke | 2,296 | 27.2 | 20.3 | 1.8 | 32.1 | 26.7 | 1.3 | 35.0 | 30.4 | 1.1 |
| Hip Fracture | 871 | 9.4 | 7.0 | 1.2 | 15.8 | 12.1 | 1.4 | 20.6 | 15.5 | 1.7 |
| Sepsis | 763 | 43.0 | 31.8 | 2.6 | 53.2 | 38.9 | 3.8 | 58.6 | 43.5 | 4.5 |
| PROCEDURES: | | | | | | | | | | |
| Angioplasty | 23 | 4.3 | 1.3 | ----- | 4.3 | 2.1 | ----- | 4.3 | 3.0 | ----- |
| Coronary Artery Bypass Graft | 229 | 6.6 | 4.1 | 1.8 | 7.4 | 6.0 | 1.7 | 7.9 | 7.0 | 1.7 |
| Initial Pacemaker Insertion | 333 | 1.8 | 3.2 | 1.5 | 4.8 | 6.1 | 2.3 | 7.2 | 8.7 | 2.5 |
| Carotid Endarterectomy | 22 | 0.0 | 1.5 | ----- | 0.0 | 2.8 | ----- | 0.0 | 4.2 | ----- |
| Hip Replacement/Reconstruction | 357 | 5.0 | 4.3 | 1.6 | 9.0 | 7.6 | 2.5 | 12.0 | 10.0 | 3.2 |
| Open Reduction of Hip Fracture | 451 | 8.2 | 6.8 | 1.4 | 15.3 | 12.1 | 1.8 | 20.4 | 15.8 | 2.2 |
| Prostatectomy | 2,739 | 0.9 | 0.8 | 0.2 | 1.9 | 1.8 | 0.3 | 2.8 | 3.1 | 0.4 |
| Cholecystectomy | 1,450 | 2.7 | 2.2 | 0.5 | 3.8 | 4.1 | 0.6 | 5.3 | 5.6 | 0.7 |
| Hysterectomy | 716 | 0.8 | 0.2 | 0.6 | 1.1 | 0.5 | 0.6 | 1.5 | 0.9 | 0.7 |

* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

DEMOGRAPHICS:

| | |
|---|---|
| Average age at admission | 73.2 years |
| Proportion female | 50.2 % |

ADMISSION SOURCES/TYPES:

| | |
|---|---|
| Referred by personal or HMO physician | 34.6 % |
| Transferred from skilled nursing facility | 0.0 % |
| Admitted for elective procedure | 22.0 % |
| Admitted for emergency | 55.8 % |

COMORBIDITIES:

| | |
|---|---|
| Cancer | 5.1 % |
| Chronic cardiovascular disease | 35.2 % |
| Chronic liver disease | 1.6 % |
| Chronic renal disease | 3.3 % |
| Chronic pulmonary disease | 14.2 % |
| Cerebrovascular degeneration | 1.0 % |
| Diabetes mellitus | 19.6 % |

# ALL STATES

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY | NUMBER OF CASES | MORTALITY RATES (%) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 30 DAYS | | | 90 DAYS | | | 180 DAYS | | |
| | | OBS | PRED | SD* | OBS | PRED | SD* | OBS | PRED | SD* |
| ALL CAUSES | 6,542,299 | 9.0 | 9.0 | ----- | 13.9 | 13.7 | ----- | 17.3 | 17.1 | ----- |
| CONDITIONS: | | | | | | | | | | |
| Acute Myocardial Infarction | 204,673 | 25.3 | 25.6 | ----- | 29.5 | 28.7 | ----- | 32.1 | 31.4 | ----- |
| Congestive Heart Failure | 335,426 | 14.3 | 14.4 | ----- | 22.9 | 22.8 | ----- | 29.2 | 29.0 | ----- |
| Pneumonia/Influenza | 313,303 | 15.3 | 15.5 | ----- | 21.5 | 21.3 | ----- | 25.5 | 25.1 | ----- |
| Chronic Obstructive Pulmonary Disease | 107,387 | 8.0 | 8.0 | ----- | 14.1 | 14.0 | ----- | 18.7 | 18.5 | ----- |
| Transient Cerebral Ischemia | 96,866 | 1.8 | 1.8 | ----- | 4.0 | 4.0 | ----- | 6.4 | 6.5 | ----- |
| Stroke | 241,803 | 19.7 | 19.8 | ----- | 26.5 | 26.3 | ----- | 30.4 | 30.0 | ----- |
| Hip Fracture | 163,386 | 6.7 | 6.5 | ----- | 11.7 | 11.5 | ----- | 15.1 | 15.0 | ----- |
| Sepsis | 80,999 | 25.6 | 25.7 | ----- | 34.6 | 33.8 | ----- | 39.8 | 38.6 | ----- |
| PROCEDURES: | | | | | | | | | | |
| Angioplasty | 58,026 | 3.0 | 3.0 | ----- | 4.0 | 4.0 | ----- | 5.0 | 4.9 | ----- |
| Coronary Artery Bypass Graft | 80,798 | 6.0 | 5.7 | ----- | 8.3 | 8.1 | ----- | 9.5 | 9.2 | ----- |
| Initial Pacemaker Insertion | 49,642 | 3.2 | 3.3 | ----- | 6.5 | 6.3 | ----- | 9.1 | 9.1 | ----- |
| Carotid Endarterectomy | 29,990 | 1.6 | 1.5 | ----- | 2.8 | 2.8 | ----- | 4.0 | 4.1 | ----- |
| Hip Replacement/Reconstruction | 122,156 | 3.4 | 3.2 | ----- | 6.2 | 5.9 | ----- | 8.1 | 8.0 | ----- |
| Open Reduction of Hip Fracture | 80,075 | 6.1 | 6.0 | ----- | 11.2 | 11.0 | ----- | 14.5 | 14.5 | ----- |
| Prostatectomy | 211,087 | 0.9 | 1.0 | ----- | 2.2 | 2.3 | ----- | 3.7 | 3.8 | ----- |
| Cholecystectomy | 124,259 | 2.9 | 2.7 | ----- | 5.0 | 4.9 | ----- | 6.5 | 6.5 | ----- |
| Hysterectomy | 53,905 | 0.7 | 0.7 | ----- | 1.4 | 1.5 | ----- | 2.2 | 2.4 | ----- |

* The Standard Deviation (SD) is not calculated.

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

DEMOGRAPHICS:

| | |
|---|---|
| Average age at admission | 74.1 years |
| Proportion female | 55.9 % |

ADMISSION SOURCES/TYPES:

| | |
|---|---|
| Referred by personal or HMO physician | 46.1 % |
| Transferred from skilled nursing facility | 1.1 % |
| Admitted for elective procedure | 22.0 % |
| Admitted for emergency | 46.5 % |

COMORBIDITIES:

| | |
|---|---|
| Cancer | 7.6 % |
| Chronic cardiovascular disease | 36.6 % |
| Chronic liver disease | 1.0 % |
| Chronic renal disease | 3.4 % |
| Chronic pulmonary disease | 15.0 % |
| Cerebrovascular degeneration | 3.9 % |
| Diabetes mellitus | 8.0 % |

# ST THOMAS HOSPITAL & COMM HEALTH CENTER

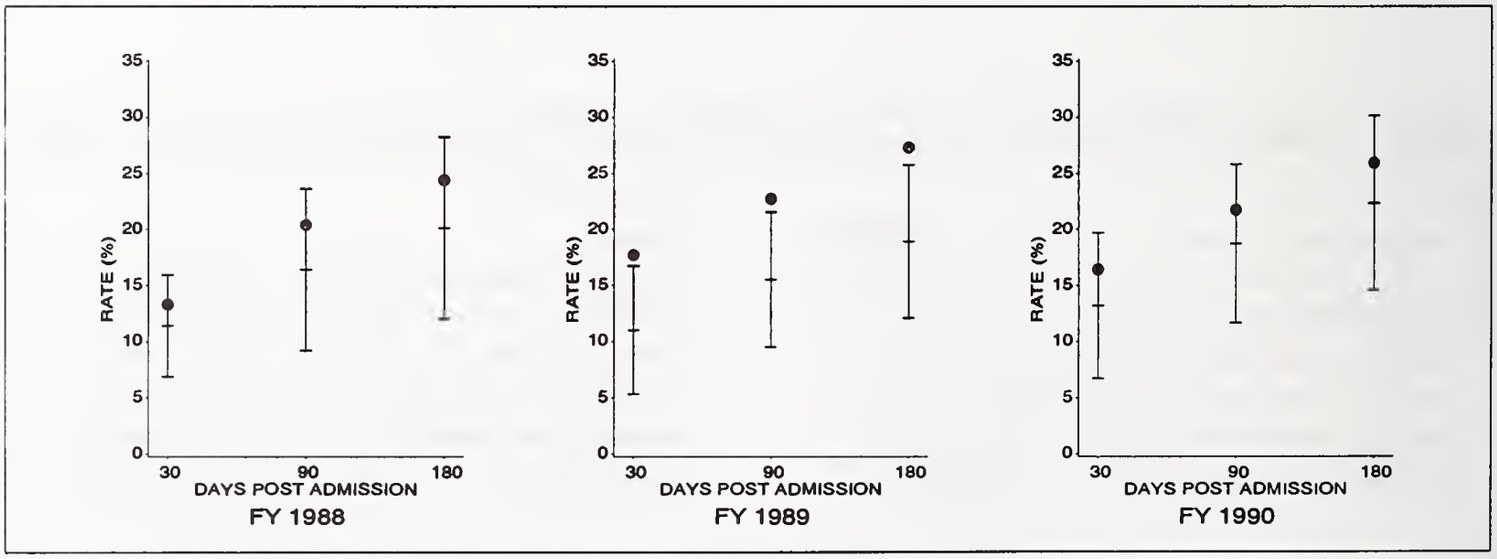
PO BOX 7309
SAINT THOMAS, VI 00801
Medicare Provider Number: 480001

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY | NUMBER OF CASES | MORTALITY RATES (%) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 30 DAYS | | | 90 DAYS | | | 180 DAYS | | |
| | | OBS | PRED | SD* | OBS | PRED | SD* | OBS | PRED | SD* |
| ALL CAUSES | 189 | 16.4 | 13.2 | 3.2 | 21.7 | 18.7 | 3.5 | 25.9 | 22.3 | 3.9 |
| CONDITIONS: | | | | | | | | | | |
| Acute Myocardial Infarction | 5 | 20.0 | 41.5 | ----- | 20.0 | 43.8 | ----- | 40.0 | 46.8 | ----- |
| Congestive Heart Failure | 16 | 25.0 | 13.3 | ----- | 37.5 | 20.2 | ----- | 37.5 | 25.1 | ----- |
| Pneumonia/Influenza | 8 | 25.0 | 18.6 | ----- | 25.0 | 25.5 | ----- | 25.0 | 29.7 | ----- |
| Chronic Obstructive Pulmonary Disease | 4 | 0.0 | 11.3 | ----- | 25.0 | 19.7 | ----- | 25.0 | 25.2 | ----- |
| Transient Cerebral Ischemia | 3 | 0.0 | 1.4 | ----- | 0.0 | 3.3 | ----- | 0.0 | 5.7 | ----- |
| Stroke | 6 | 33.3 | 28.3 | ----- | 50.0 | 34.7 | ----- | 50.0 | 38.1 | ----- |
| Hip Fracture | 5 | 0.0 | 5.4 | ----- | 0.0 | 10.0 | ----- | 20.0 | 13.1 | ----- |
| Sepsis | 0 | | | | | | | | | |
| PROCEDURES: | | | | | | | | | | |
| Angioplasty | 0 | | | | | | | | | |
| Coronary Artery Bypass Graft | 0 | | | | | | | | | |
| Initial Pacemaker Insertion | 0 | | | | | | | | | |
| Carotid Endarterectomy | 0 | | | | | | | | | |
| Hip Replacement/Reconstruction | 1 | 0.0 | 5.9 | ----- | 0.0 | 11.2 | ----- | 100.0 | 14.5 | ----- |
| Open Reduction of Hip Fracture | 1 | 0.0 | 5.4 | ----- | 0.0 | 11.8 | ----- | 0.0 | 16.2 | ----- |
| Prostatectomy | 2 | 0.0 | 2.9 | ----- | 0.0 | 6.6 | ----- | 0.0 | 9.9 | ----- |
| Cholecystectomy | 1 | 0.0 | 1.7 | ----- | 0.0 | 2.3 | ----- | 0.0 | 3.0 | ----- |
| Hysterectomy | 1 | 0.0 | 0.1 | ----- | 0.0 | 0.4 | ----- | 0.0 | 0.7 | ----- |

* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# ST THOMAS HOSPITAL & COMM HEALTH CENTER

Medicare Provider Number: 480001

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

DEMOGRAPHICS:

| | |
|---|---|
| Average age at admission | 72.8 years |
| Proportion female | 47.1 % |

ADMISSION SOURCES/TYPES:

| | |
|---|---|
| Referred by personal or HMO physician | 18.5 % |
| Transferred from skilled nursing facility | 0.0 % |
| Admitted for elective procedure | 1.1 % |
| Admitted for emergency | 98.4 % |

COMORBIDITIES:

| | |
|---|---|
| Cancer | 6.3 % |
| Chronic cardiovascular disease | 19.0 % |
| Chronic liver disease | 1.6 % |
| Chronic renal disease | 4.8 % |
| Chronic pulmonary disease | 5.8 % |
| Cerebrovascular degeneration | 3.7 % |
| Diabetes mellitus | 16.4 % |

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS*

ORIGIN OF MEDICARE PATIENT ADMISSION:

| | |
|---|---|
| County/City | 82.6% |
| State | 4.1% |
| Outside State | 13.3% |
| Total | 100.0% |

MEDICARE AVERAGE LENGTH OF STAY:

| | |
|---|---|
| Hospital | 11.5 Days |
| State | 11.5 Days |
| National | 8.6 Days |

## HOSPITAL CHARACTERISTICS*

SOURCE: Health Care Financing Administration (OSCAR)** - Survey Year 1989

PROFILE:

| | |
|---|---|
| Total Beds | 160 |
| Ownership/Control | State Government |
| Case Mix Index (CMI) | 0.9992 |

STAFFING:

| | |
|---|---|
| Medical Residents/Interns | 60 |
| Registered Nurses | 64 |
| Licensed Practical Nurses | 33 |

SPECIALTY SERVICES:

| | |
|---|---|
| Burn Unit | No |
| Coronary Care Unit | Yes |
| Hospice Care | No |
| Intensive Care Unit | Yes |
| Organ Transplant | No |
| Trauma Center | No |

OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

| | |
|---|---|
| Alcohol/Drug | No |
| Rehabilitation | No |
| Psychiatric | No |
| Medicare Swing Beds | No |

** Except for CMI

*** Not used in calculating mortality rates**

# VIRGIN ISLANDS

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY | NUMBER OF CASES | MORTALITY RATES (%) 30 DAYS OBS | 30 DAYS PRED | 30 DAYS SD* | 90 DAYS OBS | 90 DAYS PRED | 90 DAYS SD* | 180 DAYS OBS | 180 DAYS PRED | 180 DAYS SD* |
|---|---|---|---|---|---|---|---|---|---|---|
| ALL CAUSES | 189 | 16.4 | 13.2 | 3.2 | 21.7 | 18.7 | 3.5 | 25.9 | 22.3 | 3.9 |
| CONDITIONS: | | | | | | | | | | |
| Acute Myocardial Infarction | 5 | 20.0 | 41.5 | ----- | 20.0 | 43.8 | ----- | 40.0 | 46.8 | ----- |
| Congestive Heart Failure | 16 | 25.0 | 13.3 | ----- | 37.5 | 20.2 | ----- | 37.5 | 25.1 | ----- |
| Pneumonia/Influenza | 8 | 25.0 | 18.6 | ----- | 25.0 | 25.5 | ----- | 25.0 | 29.7 | ----- |
| Chronic Obstructive Pulmonary Disease | 4 | 0.0 | 11.3 | ----- | 25.0 | 19.7 | ----- | 25.0 | 25.2 | ----- |
| Transient Cerebral Ischemia | 3 | 0.0 | 1.4 | ----- | 0.0 | 3.3 | ----- | 0.0 | 5.7 | ----- |
| Stroke | 6 | 33.3 | 28.3 | ----- | 50.0 | 34.7 | ----- | 50.0 | 38.1 | ----- |
| Hip Fracture | 5 | 0.0 | 5.4 | ----- | 0.0 | 10.0 | ----- | 20.0 | 13.1 | ----- |
| Sepsis | 0 | | | | | | | | | |
| PROCEDURES: | | | | | | | | | | |
| Angioplasty | 0 | | | | | | | | | |
| Coronary Artery Bypass Graft | 0 | | | | | | | | | |
| Initial Pacemaker Insertion | 0 | | | | | | | | | |
| Carotid Endarterectomy | 0 | | | | | | | | | |
| Hip Replacement/Reconstruction | 1 | 0.0 | 5.9 | ----- | 0.0 | 11.2 | ----- | 100.0 | 14.5 | ----- |
| Open Reduction of Hip Fracture | 1 | 0.0 | 5.4 | ----- | 0.0 | 11.8 | ----- | 0.0 | 16.2 | ----- |
| Prostatectomy | 2 | 0.0 | 2.9 | ----- | 0.0 | 6.6 | ----- | 0.0 | 9.9 | ----- |
| Cholecystectomy | 1 | 0.0 | 1.7 | ----- | 0.0 | 2.3 | ----- | 0.0 | 3.0 | ----- |
| Hysterectomy | 1 | 0.0 | 0.1 | ----- | 0.0 | 0.4 | ----- | 0.0 | 0.7 | ----- |

* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

DEMOGRAPHICS:

| | |
|---|---|
| Average age at admission | 72.8 years |
| Proportion female | 47.1 % |

ADMISSION SOURCES/TYPES:

| | |
|---|---|
| Referred by personal or HMO physician | 18.5 % |
| Transferred from skilled nursing facility | 0.0 % |
| Admitted for elective procedure | 1.1 % |
| Admitted for emergency | 98.4 % |

COMORBIDITIES:

| | |
|---|---|
| Cancer | 6.3 % |
| Chronic cardiovascular disease | 19.0 % |
| Chronic liver disease | 1.6 % |
| Chronic renal disease | 4.8 % |
| Chronic pulmonary disease | 5.8 % |
| Cerebrovascular degeneration | 3.7 % |
| Diabetes mellitus | 16.4 % |

# ALL STATES

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY | NUMBER OF CASES | MORTALITY RATES (%) 30 DAYS OBS | 30 DAYS PRED | 30 DAYS SD* | 90 DAYS OBS | 90 DAYS PRED | 90 DAYS SD* | 180 DAYS OBS | 180 DAYS PRED | 180 DAYS SD* |
|---|---|---|---|---|---|---|---|---|---|---|
| ALL CAUSES | 6,542,299 | 9.0 | 9.0 | ----- | 13.9 | 13.7 | ----- | 17.3 | 17.1 | ----- |
| CONDITIONS: | | | | | | | | | | |
| Acute Myocardial Infarction | 204,673 | 25.3 | 25.6 | ----- | 29.5 | 28.7 | ----- | 32.1 | 31.4 | ----- |
| Congestive Heart Failure | 335,426 | 14.3 | 14.4 | ----- | 22.9 | 22.8 | ----- | 29.2 | 29.0 | ----- |
| Pneumonia/Influenza | 313,303 | 15.3 | 15.5 | ----- | 21.5 | 21.3 | ----- | 25.5 | 25.1 | ----- |
| Chronic Obstructive Pulmonary Disease | 107,387 | 8.0 | 8.0 | ----- | 14.1 | 14.0 | ----- | 18.7 | 18.5 | ----- |
| Transient Cerebral Ischemia | 96,866 | 1.8 | 1.8 | ----- | 4.0 | 4.0 | ----- | 6.4 | 6.5 | ----- |
| Stroke | 241,803 | 19.7 | 19.8 | ----- | 26.5 | 26.3 | ----- | 30.4 | 30.0 | ----- |
| Hip Fracture | 163,386 | 6.7 | 6.5 | ----- | 11.7 | 11.5 | ----- | 15.1 | 15.0 | ----- |
| Sepsis | 80,999 | 25.6 | 25.7 | ----- | 34.6 | 33.8 | ----- | 39.8 | 38.6 | ----- |
| PROCEDURES: | | | | | | | | | | |
| Angioplasty | 58,026 | 3.0 | 3.0 | ----- | 4.0 | 4.0 | ----- | 5.0 | 4.9 | ----- |
| Coronary Artery Bypass Graft | 80,798 | 6.0 | 5.7 | ----- | 8.3 | 8.1 | ----- | 9.5 | 9.2 | ----- |
| Initial Pacemaker Insertion | 49,642 | 3.2 | 3.3 | ----- | 6.5 | 6.3 | ----- | 9.1 | 9.1 | ----- |
| Carotid Endarterectomy | 29,990 | 1.6 | 1.5 | ----- | 2.8 | 2.8 | ----- | 4.0 | 4.1 | ----- |
| Hip Replacement/Reconstruction | 122,156 | 3.4 | 3.2 | ----- | 6.2 | 5.9 | ----- | 8.1 | 8.0 | ----- |
| Open Reduction of Hip Fracture | 80,075 | 6.1 | 6.0 | ----- | 11.2 | 11.0 | ----- | 14.5 | 14.5 | ----- |
| Prostatectomy | 211,087 | 0.9 | 1.0 | ----- | 2.2 | 2.3 | ----- | 3.7 | 3.8 | ----- |
| Cholecystectomy | 124,259 | 2.9 | 2.7 | ----- | 5.0 | 4.9 | ----- | 6.5 | 6.5 | ----- |
| Hysterectomy | 53,905 | 0.7 | 0.7 | ----- | 1.4 | 1.5 | ----- | 2.2 | 2.4 | ----- |

* The Standard Deviation (SD) is not calculated.

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

DEMOGRAPHICS:

| | |
|---|---|
| Average age at admission | 74.1 years |
| Proportion female | 55.9 % |

ADMISSION SOURCES/TYPES:

| | |
|---|---|
| Referred by personal or HMO physician | 46.1 % |
| Transferred from skilled nursing facility | 1.1 % |
| Admitted for elective procedure | 22.0 % |
| Admitted for emergency | 46.5 % |

COMORBIDITIES:

| | |
|---|---|
| Cancer | 7.6 % |
| Chronic cardiovascular disease | 36.6 % |
| Chronic liver disease | 1.0 % |
| Chronic renal disease | 3.4 % |
| Chronic pulmonary disease | 15.0 % |
| Cerebrovascular degeneration | 3.9 % |
| Diabetes mellitus | 8.0 % |

# Hospital Comments

# DR. GUBERN'S HOSPITAL

P. O. BOX 846

*Eastern Medical Associates, Inc.*

TELS. 863-0924
863-1030

FAJARDO. PUERTO RICO 00648


March 17, 1992

Gail R. Wilensky, Ph. D., Administrator
Medicare Hospital Information
Room 3-A-12, Security Office Park Building
Baltimore, Maryland 21207-5187

ATTN; Robert Moore

Provider No. 400094

Dear Mr. Moore:

A special group of professionals in our Quality Assurance Program has examined your annual release data of Medicare mortality and the following observations of the 1990 date have been made.

a) Patients which died after being discharged from the hospital, all had recovered or were in stable condition and none was prematurely discharged.

b) Hospital deaths reflect patients admitted in critical condition with comorbidities predominantly of Chronic cardiovascular disease and Diabetis mellitus. Management and care wasadequate and only four were considered unanticipated deaths, reasons being either cardiorespiratory arrest and / or cerebrovascular accidents.

In "All Deaths Causes" category:

a) Observed mortality in 30 days shows S.M.R. of 0.61 which lies below the 25% percentile of .88.

b) The observed mortality in 90 days shows S.M.R. of 1.09 which lies only slightly above the 50% percentile of 1.03.

c) The observed mortality in 180 days shows S.M.R. of 1.08 which is only slighty above the 50% percentile of 1.02.

Provider No. 400094

The three above conclusions are to be considered within your normal range statistics.

Regarding specific causes and in spite that the S.D. has not been calculated due to a small sample, we consider the stroke and Congestive Heart Failure cases (13) denote old age patients with severe multiple comorbidities and poor follow-up as ambulatory patients due to socio-economic conditions.

In regards to the Prostatectomy category cases, these are patients in whom a diagnosis of Ca. is done at the hospital and referred for treatment elsewhere or T.U.R.P. cases who die of other causes outside of the hospital. We have no deaths in our institution secondary to or atributable to prostatic surgery.

We appreciate all information and data given to us and the opportunity to comment on them. This complete analysis of the data will improve our delivery of health care.

Cordially yours,

Felipe A. Garcia, M.D.
Medical Director

Montserrat G. de Garcia, BA, FACHE
Hospital Administrator

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